1/1. Examinable syllabus guide for

DECEMBER 2024 TO JUNE 2025 according to ACCA

Accounting for Government Grants and Disclosure of Government Assistance

 Apply the provisions of accounting standards relating to government grants and government assistance in relation to property, plant and equipment.

After studying our material and solving related questions, please refer back to the points above to make sure you fully cover it well

مقدمة

1/2. Overview

1. Government grants (G.G⁵) and other types of government assistance are usually intended to encourage entities to embark on activities that they would not have otherwise undertaken. It can be viewed as an extension to fiscal policies.

2. Scope of IAS # 20:

A. IAS # 20 sets out the accounting treatment and disclosure of 'G.G'' and only disclosure requirements of 'Government assistance' because G.G is a government assistance with reasonably estimated value. Thus; the distinction between G.G' and other forms of government assistance is important.

B. The goal of IAS #20 is to achieve **proper matching** between G.G received/receivable and the related costs.

Under IAS # 20 Government is defined broadly to include the government of a country and governmental agencies and similar bodies whether local, national or international.

3. Scoped out of IAS # 20:

IAS # 20 excludes the following:

A. Accounting for G.G's in the F/S's reflecting the effects of changing prices. (Covered under IAS # 29'Financial Reporting in Hyperinflationary Economies');

B. Government assistance provided in the form of tax benefits and tax breaks such as income tax holidays, investment tax credits, accelerated depreciation allowances and reduced income tax rates. (Covered under IAS #12'Income Taxes');

C. Government participation in the ownership of the entity; because participation in ownership is made in anticipation of a return on investment (ROI) while government assistance is provided with a different economic objective such as reducing unemployment in some disadvantaged geographical areas. Also G.G⁵ under IAS # 20 excludes transactions with governments that can't be distinguished from the normal trading transactions of the entity such as government procurement policy that results in increased sales of the entity.

4. G.G' covered by IAS #41'Agrecluture'.

2/1.What is the G.G?

1. G.G'; are **transfers of resources** (monetary /non-monetary) to an entity in return for past *or* future compliance with certain conditions relating to its **operating activities**.

2. Examples of G.G5:

A. Grants provided for remediating a polluted plant site;

B. Grants provided to encourage or support business activities in certain regions such as an economically less developed area *or* industry sectors such as an agriculture-based industry due to its low profitability that may not otherwise be attractive to entrepreneurs.

3. Types of G.G5:

A. Forgivable loans;

B. Below-market interest governmental loans;

C. Grants related to income;

D. Grants related to assets;

4. Recognition approach of G.G5

IAS # 20 supports income approach rather than the capital approach in which the grant is directly credited to equity.

5. Recognition criteria of G.Gs:

G.G's (monetary/non-monetary grants) shall be recognised in P/L at F.V when there is reasonable assurance that:

A. The entity will comply with the conditions attaching to the grant; and

B. The grant will be actually received.

Notes:

A. 'Reasonable assurance' means existence of a 'Sufficient degree of certainty'.

B. Recognition of G.G's in P/L when received (cash basis) is acceptable only if no future conditions would be required form the entity to compile with. Otherwise the conditions attaching to the grant must be complied with by the entity in order to recognise the grant received or receivable in P/L. Thus; G.G is recognised under deferred income recognition approach.

C. A grant is accounted for under deferred income recognition approach in the same manner whether it is received in cash or as a reduction of a liability to the government or in non-monetary form.

Dr: Cash/ loan payable/ PPE \$XX

Cr: Deferred income-G.G \$XX

D. Any contingent liability *related to* the **recognised grant** should be disclosed in accordance with IAS # 37 'Provisions, Contingent Liabilities *and* Contingent Assets'.

D. Any contingent liability *related to* the **recognised grant** should be **disclosed** in accordance with IAS # 37 'Provisions, Contingent Liabilities *and* Contingent Assets'.

Thus: Under deferred income recognition approach; G.G⁵ are initially presented as deferred income (current /non-current liability) in the SFP when received and recognised as other income-G.G in P/L on a systematic and rational basis over the periods necessary to match them with the related costs.

Illustrative example: Adam received a G.G representing 50% of the cost of a depreciating asset which costs \$60,000. Assume the useful life of the asset is five years with zero residual value.

Required: How will the grant be recognised under deferred income recognition approach if Adam depreciates the asset under either straight line or at 40% reducing balance?

Answer: : IAS # 20 'Accounting for Government Grants and Disclosure of Government Assistance' requires recognising the grant in P/L using systematic and rational basis of matching the recognised grant income with relevant expense (deprecation in this case).

When grant is received or receivable:

Dr: Cash or Grant receivable \$30,000

Cr: Deferred income -G.G \$30,000 → non-current liability

When grant is recognised in P/L:

Dr: Deferred income-G.G

Cr: Other income-G.G \rightarrow P/L

	Straight line depreciation		40% reducing balance		
Year-end	Asset depreciation	Grant recognition	Asset depreciation	Grant recognition	
1	\$12,000	\$6,000	\$60,000 × 40% = 24,000	\$30,000 × 40% = \$12,000	
2	12,000	6,000	36,000 × 40% = 14,400	18,000 × 40% = 7,200	
3	12,000	6,000	21,600 × 40% = 8,640	10,800 × 40% = 4,320	
4	12,000	6,000	12,960/2 = 6,480*	6,480/2 = 3,240*	
5	12,000	6,000	12,960/2 = 6,480	6,480/2 = 3,240	
Total	60,000	30,000	60,000	30,000	

^{*}S.L is used in the last two years for simplicity.

القروض القابلة للإعفاء

3/1.Recognition of forgivable loans

1. Forgivable loans are loans that the lender undertakes to waive repayment of under certain prescribed conditions.

2. Under IAS # 20 a government forgivable loan is treated as G.G rather than a loan when there is reasonable

assurance that the entity will meet the terms of forgiveness set forth in the loan agreement.

Illustrative example: Carmen participates in a government sponsored R&D program to invent a new product. Under

the program Carmen is entitled to receive a G.G of up to 50% of the R&D costs that would be incurred. The G.G is interest-

bearing loan at an annual simple interest rate of 8% and fully repayable based on a percentage of the sales revenue of the

product developed. Although the repayment period is not limited; no repayment is required if there are no sales of the

product.

Assume Carmen incurred \$2m as R&D up to 30, Sep, 2017 and received the G.G at that date.

Required: Describe the accounting treatment for this type of G.G assuming that there are no sales of the products up to the

end of the first year of 30, Sep, 2018.

Answer:

1. Recording R&D expenses incurred at 30, Sep, 2017:

Dr: R&D expenses $2m \rightarrow P/L$

Cr: Cash \$2m

2. Receiving the grant at 30, Sep, 2017:

Dr: Cash \$1m

Cr: Loan payable \$1m

Initially; the amount received is accounted for as a loan.

3. Recording finance cost at 30, Sep, 2018:

Dr: Finance cost ($1m \times 8\%$) = $80,000 \rightarrow P/L$

Cr: Loan payable \$80,000

Continued: Review at each SFP date whether there is reasonable assurance that the entity will meet the terms for

forgiveness of the loan. If this is the case; then derecognise part or all of the liability initially recorded with recognition of

corresponding portion in of P/L.

Assume at 30, Sep, 2019 it was determined that; no sales could be resulted from the R&D project then:

Dr: Finance cost ($$1m \times 8\%$) = $$80,000 \rightarrow P/L$ Cr: Loan payable \$80,000 And: **Dr:** Loan payable \$1,160,000 Cr: Other income -G.G $1,160,000 \rightarrow P/L$ **Continued:** If Carmen subsequently revises its estimates of future sales upwards; it reinstates the liability for any amounts previously included in P/L by recognising a corresponding loss in P/L. **Assume** at **30**, Sep, **2020** the product is successfully developed *and* proved to be commercially viable *then*; A. Reinstatement of previously written off loan: Dr: Loss $$1,160,000 \rightarrow P/L$ -treated as a change in accounting estimate Cr: Loan payable \$1,160,000 B. Recording interest on the loan: Dr: Finance cost ($$1m \times 8\%$) = $$80,000 \rightarrow P/L$ Cr: Loan payable \$80,000 When Carmen sells the product, it starts to repay the loan and calculate the finance cost on the balance unpaid. Summary: When loan is received: Dr: Cash xxx Cr: Loan payable xxx When there is reasonable assurance that the entity will meet the terms of forgiveness: Dr: Loan payable xxx Cr: Other income-G.G \rightarrow If it is recognised immediately in P/L or

Cr: Deferred income-G.G \rightarrow if it is recognised in P/L on a deferred basis to match related expenses

قروض بفائدة أقل من السوق

4/1. Measuring and recognition

of economic benefits of below market interest loans

Below-market interest government loans have an economic effect that should be measured and reported as a G.G. The economic effect is gauged by the difference between the face amount of the loan and the P.V of the future payments discounted by a relevant (market) interest rate.

Illustrative example (1): Ernest is encouraged to relocate to industrial region on 1, Jan, 2019 by an economic stimulus package that includes 5 years term loan of \$4m at an interest of 2% paid at each year-end when Ernest's marginal borrowing rate of 8%.

P.V factor of \$1 for 5 years at 8% is \$3.993.

P.V factor of \$1 at 8% payable at the end of 5 years is \$0.6806.

Required: Calculate the G.G assuming it is related to past compliance with specified conditions.

Answer:

P.V of the future payments discounted at $8\% = [\$3.993 \times (\$4m \times 2\%)] + [(\$4m \times \$0.6806)] = \$3,041,840$.

G.G = $(\$4m - \$3,041,840) = \$958,160 \rightarrow recognised immediacy in P/L as income because it relates to past compliance (unconditional)$

Dr: Cash \$4m

Cr: Loan payable \$3,041,840 → Carried at amortised cost

Cr: Other income-G.G \$958,160 → P/L

Note: If Ernest has ongoing obligations (such as to remain as an employer in the community throughout the term of the loan); then the \$958,160 should be deferred and recognised as other income in P/L (on a straight line basis) over the term of the obligation.

First annual payment at year-end:

Dr: Finance cost (\$3,041,840 × 8%) = \$243,347 \rightarrow P/L

Cr: Cash ($4m \times 2\%$) = \$80,000

Cr: Loan payable (\$243,347 - \$80,000) = \$163,347

Note: The balance of the loan payable at year-end = \$3,041,840 + \$163,347 = \$3,205,187.

Thus; the discount on the **loan** payable (the **grant** amount) is **recognised** over the 5-year term *through* increasing finance cost. As such; an effective rate of 8% on the **loan** balance will be reported as finance cost in Ernest's P/L reflecting the economic substance of its marginal borrowing rate.

Illustrative example (2): The local government of an underdeveloped region is trying to stimulate investment by allowing local entities to retain the Value Added Tax (VAT) on their sales. An entity participating in this scheme is entitled

to retain an amount up to 30% of its investment in certain fixed assets.

The retained VAT must be paid to the local government after 5 years with zero interest.

Assume the entity collected \$5m VAT during the first year and made investment in the underdeveloped region at \$12m and

the market interest rate is 6% on average VAT retained.

Required: How the previous event is accounted for?

Answer:

Amount of free interest loan = $12m \times 30\% = 3.60m$.

1. The entity should pay the excess VAT of \$1.40m (\$5m - \$3.60m):

Dr: VAT payable \$1.40m

Cr: Cash \$1.40m

2. Imputed interest on retained VAT = $$3.60m \times 6\% = $216,000$.

Thus; at each year-end of the next 5 years, the following entry would be recorded:

Dr: Finance cost \$216,000 \rightarrow P/L

Cr: Other income-G.G \$216,000 \rightarrow Recognised in P/L because the entity satisfied the loan condition.

Comment: The deferred VAT liability of \$3.60m is comparable in nature to an interest free loan. The entity can reasonably

measure the economic value of the free interest loan based on market interest rate and recognise it as other income-G.G.

المتعلقة بالدخل G.Gs

5/1.Recognition and presentation of G.G's related to income

♦ G.G related to income is G.G' other than those related to assets.

♦ G.G related to income is given to subsidise expenditure or to help achieve non-financial goal such as achievement of a certain employment rates in undeveloped area.

Cases triggering G.Gs related to income:

A. G.Gs in recognition of specific costs that will be borne by the entity

1. G.G related to income should be recognised in P/L in a systematic and rational basis to match the related costs.

2. G.G^s received *or* receivable in recognition of specific costs to be bome by the entity are recognised in P/L over the same period as the relevant expense incurred *either* as other income (gross method) *or* deducted from the related expense (net method).

Illustrative example: An entity received G.G of \$39m to defray (pay) environmental costs over a period of five years as follows:

Year	1	2	3	4	5	Total
Costs	S2m	\$4m	\$6m	\$8m	\$10m	\$30m

Required: How the G.G related to income is recognised in P/L?

Answer:

1. When the G.G is received:

Dr: Cash \$39m

Cr: Deferred income-G.G \$39m

2. G.G *related to* income can be **presented** in P/L in *either* one of the following:

	Gross method	Net method		
G.G is recognised as other income over the same period as the relevant expense		G.G is deducted from the related expense		
Dr: Deferred income-G.G XX Cr: Other income-G.G XX		Dr: Deferred income-G.G XX		
Year	Amount recognised	Year Amount recognised		sed
1	$$39m \times (2/30) = $2.60m$	1	Cr: Other income-G.G \$0.60m	Cr: Expenses \$2m
2	$39m \times (4/30) = 5.20m$	2	Cr: Other income-G.G \$1.20m	Cr: Expenses \$4m
3	$39\text{m} \times (6/30) = 7.80\text{m}$	3	Cr: Other income-G.G \$1.80m	Cr: Expenses \$6m
4	39m × (8/30) = 10.40m	4	Cr: Other income-G.G \$2.40m	Cr: Expenses \$8m
5	39m × (10/30) =13m	5	Cr: Other income-G.G \$3m	Cr: Expenses \$10m
IAS # 20 does not favor either option. However disclosure of the effect of the G.G on any item of income or expense is required.				

B. G.G's received/receivable as compensation for expenses or losses already incurred or for the purpose of giving immediate financial support to the entity with no future related costs

The G.G may be awarded for giving immediate financial support to the entity for example G.G is awarded to revive a commercial insolvent business (sick unit) or to compensate it for losses incurred in the past for operating out in an economically backward area that has been hit recently by an earthquake. Such grants are not given as incentives to invest funds in a specified area or for a specified purpose from which the benefits will be derived over a future period of time; instead the grant is awarded to compensate the entity for expenses/losses incurred in the past. Thus; it should be recognised as income in the period in which the entity becomes eligible to receive such grant (i.e. the grant become receivable).

6/1. Overview

1. G.G^s related to assets are grants whose **primary condition** for the entity to qualify for that type of grants is to acquire (purchase or construct) a long-term depreciable or non-depreciable asset such as factory or land.

Note: **Secondary conditions** may also be attached to that **grant** such as specifying the type of that asset, its minimum value or its location and periods during which that asset to be acquired or held...etc.

2. G.G' related to assets could be either monetary or non-monetary such as grant of a piece of land or a building in an economically disadvantaged area.

المتعلقة بالأصول G.Gs

6/2. Accounting for monetary grants related to assets

Illustrative example: David entitled to receive a **grant** of \$4m *if* it purchased for \$10m a factory building repossessed by the city. The useful life of the factory is estimated at four years.

Required: Explain the options given under IAS # 20 to account for that grant related to assets.

Answer: IAS # 20 prescribes the following **optional** presentation and recognition methods in the SFP and P/L of G.G related to asset that is received (or receivable) in a monetary form:

Separate presentation in P/L and SFP	Net presentation in P/L and SFP
1. Initially the non-monetary asset is recorded at its	1. Initially; the monetary amount of the grant is
F.V separately from the grant received (or receivable)	netted off the cost of the asset.
in monetary form and the related monetary amount of the	
grant is initially presented as deferred income.	At the date when the factory is purchased:
At the date when the factory is purchase:	Dr: PPE \$10m
Dr: PPE \$10m	Cr: Cash \$10m
Cr: Cash \$10m	
	At the date the grant received
At the date the grant received:	Dr: Cash \$4m
Dr: Cash \$4m	Cr: Deferred income-G.G \$4m
Cr: Deferred income-G.G \$4m→ non- current liability.	
	Adjusting entry to report the factory at its nominal
	amount
	Dr: Deferred income -G.G \$4m
	Cr: PPE S4m
2. Subsequently; separately depreciate the asset (if	2. Subsequently reduced depreciation (if the
depreciable) or $recognise$ the expenses conditioned by the	related asset is depreciable) is recognised in P/L over
$\ensuremath{\mathbf{grant}}$ and $\ensuremath{\mathbf{recognise}}$ the $\ensuremath{\mathbf{matching}}$ amount of the $\ensuremath{\mathbf{deferred}}$	the asset's useful life.
grant in P/L as other income in a systematic and rational	
manner over the useful life of the asset.	

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At each year-end	for the next 4 years	At each year-end for the next 4 years
Dr: Dep. Exp \$2.50m	Dr: Deferred income-G.G \$1m	Dr: Dep. Exp \$1.50m
Cr: Acc. Dep \$2.50m	Cr: Other income-G.G \$1m	Cr: Acc. Dep \$1.50m
The asset balance	The deferred income-GG balance	The asset balance
Beginning of year 1→ \$10m	Beginning of year 1→ \$4m	Beginning of year 1→ \$6m
Ending of year 1→ 7.50m	Ending of year 1→3m	Ending of year 1→ 4.50m
Ending of year 2→ 5m	Ending of year 2→ 2m	Ending of year 2→3m
Ending of year 3→ 2.50m	Ending of year 3→1m	Ending of year 3→1.50m
Ending of year 4 → 0	Ending of year $4 \rightarrow 0$	Ending of year $4 \rightarrow 0$

Notes:

- 1. The effect on the operating results is the same under either option chosen.
- 2. Under the separate presentation **option**, the grant is directly recognised as other income whereas under the net presentation **option**, the grant is indirectly recognised in income through the reduction of the annual related expense (depreciation charge)
- **3.** IAS # 20 does not favor *either* **option**, both are acceptable. *However* disclosure of the effect of the grants on any item of income *or* expense is required.
- 4. The amount of grant received is **not offset** in the **statement of cash flows** with the amount paid to acquire the related asset; each is **presented separately** in the **financing** and **investing** activities sections respectively regardless of whether or not the grant is deducted from the related asset for the purposes of the SFP **presentation**.

6/3. Accounting for non-monetary grants related to assets

Illustrative example: Erwin was granted 800 acres of land by a local government authority. The condition attached to this grant was that; Erwin should clean up this land *and* lay roads by employing labors from the village in which the land is located. The entire operation will take four years *and* is estimated to cost \$80m. This amount will be spent as follows: \$15m each in the first *and* second years *and* \$25m in the third *and* fourth year.

The F.V of this land is presently \$160m.

Required: How the non-monetary grant is accounted for under IAS # 20?

Answer:

IAS # 20 prescribes the following **optional** presentation *and* recognition methods of **non-monetary** grants *related to* assets in the SFP *and* P/L:

Gross method	Net method
A. Initially capitalise the non-monetary asset granted at	Presentation manner (1)
F.V separately from any related obligations necessary to be incurred for the grant eligibility:	Immediate <u>recognition</u>
Dr: PPE-G.G \$160m	At the date land received:
Cr: Deferred income-GG \$160m	Deduct the expenses required to be incurred from the F.V of the non-monetary asset granted and capitalise the

B. Subsequently recognise the deferred grant into P/L in a systematic and rational manner in proportion to the depreciation charge if the granted non-monetary asset is depreciable or the related expenses if the granted non-monetary asset is non-depreciable.

Amount annually recognised as other income:

Year	Grant recognised
1	\$160m × (15/80) = \$30m
2	160m × (15/80) = 30m
3	160m × (25/80) = 50m
4	160m × (25/80) = 50m
Total	160m

Dr: PPE-G.G \$80m

non-monetary asset granted at net amount.

Cr: Deferred income-G.G \$80m

Year	Recording annual expense incurred
1	Dr: Deferred income \$15m
1	Cr: Cash S15m
	Dr: Deferred income \$15m
2	Cr: Cash \$15m
2	Dr: Deferred income \$25m
Cr: Cash \$25m	
	Dr: Deferred income \$25m
4	Cr: Cash \$25m

Annual recognition of grant income and

related expense

Year	Grant recognised	Expenses recognised
1	Dr: Deferred income \$30m	Dr: Expenses \$15m
1	Cr: Other income-G.G \$30m	Cr: Cash \$15m
•	Dr: Deferred income \$30m	Dr: Expenses \$15m
2	Cr: Other income-G.G \$30m	Cr: Cash \$15m
3	Dr: Deferred income \$50m	Dr: Expenses \$25m
3	Cr: Other income-G.G \$50m	Cr: Cash \$25m
4	Dr: Deferred income \$50m	Dr: Expenses \$25m
4	Cr: Other income-G.G \$50m	Cr: Cash \$25m

Presentation manner (2)

Gradual recognition

At the date land received:

No entry is made; the land would be **recognised gradually** at **net** as follows:

Year	Recording expense incurred	Grant recognised
	Dr: Expenses \$15m	Dr: PPE-G.G \$15m
1	Cr: Cash \$15m	Cr: Expenses \$15m
	Dr: Expenses \$15m	Dr: PPE- G.G \$15m
2	Cr: Cash \$15m	Cr: Expenses \$15m
	Dr: Expenses \$25m	Dr: PPE-G.G \$25m
3	Cr: Cash \$25m	Cr: Expenses \$25m
	Dr: Expenses \$25m	Dr: PPE-G.G \$25m
4	Cr: Cash S25m	Cr: Expenses \$25m

Notes: IAS # 20 does not favor *either* option both methods are acceptable. *However* disclosure of the effect of the grants on any item of income *or* expense is required.

6/4. G.Gs received with a number of conditions attached

When different conditions attach to different components of the grant; the terms of the grant would have to be evaluated in

order to determine how the various elements of the G.G would be recognised as income by the entity. Based on that

assessment the total grant amount would then be apportioned and recognised.

Illustrative example: On 1, Oct, 2019 Ferry opened a new factory in an area designated by the government as an

economic development area. On that day the government provided Ferry with a grant of \$50m to assist it in the development

of the factory. This grant was in two parts:

1. \$30m of the grant related to the construction of a large factory at a cost of \$90m. The land was leased so the whole of the

\$90m is depreciable over the estimated 40 year useful life of the factory.

2. The remaining \$20m was received subject to keeping at least 250 employees working at the factory for a period of at least

five years. If the number drops below 250 at any time in any financial year during this five year period; then 1/5 of the grant

is repayable in that year. From 1, Oct, 2019 Ferry employed 280 workers at the factory and estimates are that this number is

likely to increase over the next four years. Your assistant has recognised the \$30m received in respect of the factory in the

statement of P/L in the current year on the basis that; the factory has been constructed and brought into use. He has not recognised any of the \$20m employment grant on the basis that this is potentially repayable. He has charged \$2.25m in

depreciation to the statement of P/L.

Required: Evaluate the proposed accounting treatments and (where incorrect) explain the appropriate accounting

treatment (preparing relevant calculations where necessary) of the previous transaction in the F/S⁵ for the year-ended 30,

Sep, 2020.

Answer

1. Accounting for government grants is dealt with by IAS # 20 'Accounting for Government Grants and Disclosure of

Government Assistance'.

2. The basic principle of IAS # 20 is that; grants should be recognised as income over the periods necessary to match them

with the related costs which they are intended to compensate on a rational and systematic basis.

3. Where the grant relates to an asset IAS # 20 allows two methods of presentation in the SFP:

A. The first method sets up the grant as deferred income and then credits the grant to income over the life of the asset.

Dr: Cash \$30m and Cr: Deferred income \$30m.

In this case this would mean recognising \$750,000 (\$30m × 1/40) as a credit to P/L in the current year.

Dr: Deferred income \$0.75m and Cr: Other income \$0.75m. The balance of \$29.25m (\$30m - \$0.75m) presented in the

SFP as a liability. \$750,000 of this amount would be shown as a current liability with the balance of \$28.50m shown as a

non-current liability.

B. The second permitted method deducts the portion of the grant related to the asset from the cost of the asset showing in

this case a reduced cost of \$60m (\$90m - \$30m). This would result in a reduced depreciation charge to \$1.50m giving the

same net result in the statement of P/L under both methods.

4. The same principle applies to the grant related to the employment of staff. The grant is probably not going to be repaid

so delaying recognition is inappropriate. Unless the likelihood of repayment is remote; then it would be appropriate to

disclose the possible repayment as a contingent liability. \$4m (\$20m × 1/5) of the employment grant should be recognised

in the statement of P/L for the current year. IAS # 20 allows this amount either to be shown as 'other income' or as a

reduction in the relevant expense. The unrecognised balance of \$16m (\$20m - \$4m) would be presented as deferred income

with \$4m shown as a current liability and \$12m as a non-current liability.

GG سداد

7/1. Recognition of repayable G.G

1. When a G.G becomes repayable due to non-fulfillment of a condition attaching to it; it should be treated prospectively as a change in accounting estimate under IAS # 8'Accounting Policies, Changes in Accounting Estimates and Errors'

2. Accounting recognition of repaid grant is as follows:

A. Repayment of a grant related to income:

1). Reduce any unamortised balance of deferred income to zero.

Dr: Deferred income-G.G \$XX

Cr: Cash \$XX

- 2). Any excess amounts repaid should be recognised immediately as an expense.
- B. Repayment of a grant related to an asset:

The accounting treatment would depend on whether the grant is initially recorded separately from the F.V of the related asset or the grant is initially reduced the carrying amount of the related asset.

Illustrative example: At 1, Jan, 2017 Sandy invests \$5m in an item of plant which has an anticipated useful life of five years. Depreciation is recognised on a straight-line basis. In the year of acquisition, Sandy received a G.G of \$2m towards the purchase of this plant which is conditional on certain employment targets being achieved within the next five years. At 31, Dec, 2019 it is evident that the employment targets will not be achieved and therefore the criterion attached to the receipt of this grant has been failed. The grant becomes repayable.

Answer:

If the grant recorded separately from the related asset:	If the related asset is initially reduced by the grant:
♦ Amount amortised to other income of deferred grant up to 31, Dec, 2019 = \$2m × 3/5 years = \$1.20m.	A. The asset carrying value before repayment = $[(\$5m - \$2m) \times 2/5] = \$1.20m$.
♦ Balance of deferred grant at 31, Dec, 2019 = \$2m - \$1.20m = \$0.80m.	B. Recording the repayment by increasing the amount of the asset:
Recording the repayment:	Dr: PPE S2m
Dr: Deferred income-G.G \$0.80m	Cr: Cash \$2m
Dr: Other expenses \$1.20m Cr: Cash \$2m Note: Under this method the repayment does not impact the carrying amount of PPE of \$2m (\$5m ×2/5) or	C. The asset carrying value after repayment = \$1.20m + \$2m = \$3.20m.
	D. Recording the increased depreciation that should have been charged in the past to P/L immediately:
depreciation expense recognised.	♦ Cumulative additional depreciation that would have been recognised to date = \$2m × 3/5 years = \$1.20m.
	Dr: Dep. Exp \$1.20m → Recognised immediately in P/L Cr: Acc. Dep \$1.20m
	Thus; the adjusted carrying value of the asset = \$3.20m - \$1.20m = \$2m.

الإفصاح عن المساعدات الحكومية

9/1.Government Assistance

- 1. Government assistance is a government action designed to provide an economic benefit **specific** to entities qualifying under certain criteria.
- 2. Government assistance include; G.G' and other kinds of non-monetary government assistance (where no transfer of resources is involved).
- **3.** Examples of government assistance include; the provision of free training, legal, marketing *and* technical advice *or* other incentives to an entrepreneur for setting up a business in a free trade zone.
- 4. Government assistance **exclude** benefits provided indirectly through actions affecting trading conditions in general such as the provision of infrastructure in development areas (i.e. laying roads that connect the industrial area to the nearest city) or the imposition of trading constraints on foreign competitors in order to protect domestic entrepreneurs and supply of improved facilities such as irrigation or water reticulation that is available for the benefit of an **entire** local community.

Remember: IAS # 20 deals with both accounting and disclosure of G.G' but only disclosure of significant direct government assistance because it does not involve transfer of resources. So it can't be measured reliably.

الإفصاحات والمشاكل بموجب المعيار الدولي لإعداد التقارير المالية رقم 20

10/2. Problems with IAS # 20

- 1. Accounting for G.G's as a deferred income is considered by some to be inconsistent with IASB's Conceptual Framework for financial reporting because:
- A. G.G⁵ are a financing device and should be recognised as equity in the SFP if repayment is remote and not recognised in P/L. The rebuttal argument is that; G.G⁵ do not come from shareholders; and
- **B.** It is inappropriate to recognise **G.G**⁵ in P/L because they are **not earned** but represent an incentive provided by government. The rebuttal argument is that; **G.G**⁵ usually comes with obligations to incur costs.
- 2. Reducing the carrying amount of assets by a G.G' is not accepted by some.
- 3. IAS # 20 contains too many alternative treatments.

1/1. Examinable syllabus guide for

DECEMBER 2024 TO JUNE 2025 according to ACCA

Agriculture

- Recognise the scope of IFRS Accounting Standards for agriculture.
- Discuss the recognition and measurement criteria including the treatment of gains and losses,
 and the inability to measure fair value reliably.
- Identify and explain the treatment of government grants, and the presentation and disclosure of information relating to agriculture.
- Report on the transformation of biological assets and agricultural produce at the point of harvest and account for agriculture related government grants.

After studying our material and solving related questions, please refer back to the points above to make sure you fully cover it well.

مقدمة

1/2. Overview

1. The importance of the agricultural sector in most country's economy is significant. Before issuance of IAS # 41 the accounting treatments in agricultural activities was characterised by a great diversity. Cows for example were accounted for as 'inventories' in Ireland *but* as 'non-current assets' in the UK.

2. The problem:

It is quite difficult to apply traditional accounting methods to agricultural activities because it demonstrates fundamental differences in its nature and characteristics to other business activities, for example;

- A. When and how the critical events associated with biological transformation which alters the substance of biological assets can be accounted for?
- **B.** What is the proper classification of the biological assets in the SFP?
- C. What is the unit of measurement .i.e. whether biological assets are a perpetual group of assets or a number of limited life assets?
- **3.** IAS # 41 'Agriculture' (funded from the World Bank) issued in Feb, 2001 to harmonise accounting treatments and increase comparability among agricultural activities in different countries.

1/3. Definitions

- 1. Biological assets are <u>living</u> animals (livestock) such as sheep for wool, lamb for food and dairy cattle or <u>living</u> plants for crop such as planted trees, vines for grape, plants before harvest to grow cotton, tea or extract sugar and forestry to get timber.
- 2. A group of biological assets is an aggregation of similar living animals or plants.
- 3. Biological transformation of living animals and plants comprises the processes of growth, procreation;, production and degeneration that cause qualitative changes (fat cover, wool density, etc...) and quantitative changes (progeny, live weight etc...) over time in a biological asset which can be measured objectively.

Thus; biological transformation results in the following types of outcomes:

- A. Growth; an increase in quantity or improvement in quality of a living animal or plant;
- **B.** Procreation; creation of additional living animals through breeding;
- C. Production; of agricultural produce such as latex from trees, tea leaf, wool and milk;
- **D.** Degeneration; a decrease in the quantity or deterioration in quality of an animal or living plant due to age and other factors.

Note: Biological transformation is the source of the agricultural sector uniqueness.

4. Agricultural produce (harvest); is the harvested product of the biological asset *such as* apples from trees, milk from cows *and* meat from animals, wool from sheep *and* grapes from vines.

Note: Agricultural produce is diverse *and* may require further processing before consumption. IAS # 41 is not applicable to further processing activities.

- 5. Harvest; is the detachment of agricultural produce from a biological asset or the cessation of a biological asset's life.
- **6.** Agricultural activity; is the management of the biological transformation *and* the harvest of biological assets into agricultural produce.

Examples; raising livestock, forestry activities, cropping, cultivating orchards, pastoral activities, plantations, floriculture and aquaculture including fish farming.

7. Fair value (F.V); is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date (IFRS Accounting Standard # 13' Fair value measurement').

Application of definitions

Illustrative example (1): For each of the following transactions determine the appropriate term:

- A. A farmer buys a dairy calf;
- B. The calf grows into a mature cow;
- C. The farmer milks the cow.

Answer:

Transaction	Appropriate term
A farmer buys a dairy calf.	The calf is a biological asset.
The calf grows into a mature cow.	Growth; a type of biological transformation.
The farmer milks the cow.	The milk has been harvested. Milk is an agricultural produce.

Illustrative example (2): For each of the following biological assets determine:

- A. Agricultural produce (harvest);
- **B.** Products that are the result of processing after harvest;
- C. Whether the products that are the result of processing after harvest are subject to IAS # 41 or not.

Biological assets
1. Sheep
2. Planted trees in forest
3. Plants
4. Dairy cattle
5. Pigs
6. Bushes
7. Vines
8. Fruit trees

Biological assets	Agricultural produce (harvest)	Products that are the result of processing after harvest	
1. Sheep	Wool	Yarn, carpet	
2. Planted trees in forest	Logs	Lumber	
3. Plants	Cotton, harvested cane	Textiles, sugar	
4. Dairy cattle	Milk	Cheese	
5. Pigs	Carcass	Sausages, cured hams	
6. Bushes	Leaf	Tea, cured tobacco	
7. Vines	Grapes	Wine	
8. Fruit trees	Fruit	Juice	

IAS # 41 is **not** applicable to further processing activities.

Ex1: Distinguish between a biological asset and agricultural produce.

Answer: A biological asset is a living animal or plant whereas agricultural produce is the harvested produce of an entity's biological assets.

Ex2: Give examples of biological assets and their relative agricultural produce.

Answer: Examples of biological assets and agricultural produce are:

Biological asset	Agricultural produce
Sheep	Wool
Pigs	Meat
Dairy cattle	Milk
Fruit tree	Oranges etc
Plant	Cotton
Bush	Tea leaves
Vine	Grapes
Chicken	Eggs

مقدمة

1/4. IAS # 41-General issues and Scope

- 1. Consistency requires that both biological assets and agricultural produce should be measured using the same basis of measurement. The existence of active and efficient markets for both biological assets and produce makes market based measures are more reliable.
- **2.** Measuring biological assets as a **collective class** rather than individual members even though individual members have a limited life is more reliable and consistent with going concern.
- **3.** Agricultural activities have different risks and rewards therefore it should be **reported** under **different** segments (IFRS Accounting Standard #8).

Scope of IAS # 41	Scoped out	
1. Biological assets used in agricultural activity. Note: animals in a zoo <i>or</i> game park would be outside the scope of IAS # 41.	1. Only Plant-based-Bearer biological assets are accounted for under IAS# 16 'PPE'.	
2. Agricultural produce at the point of harvest.	2. After harvest IAS # 2 'inventory' applies.	
3. Government grants (G.Gs) related to	3. Land used in agricultural activities are accounted for under IAS #16 'PPE' or IAS #40 'Investment Property' as relevant.	
Agricultural activities.	4. Intangible assets related to agricultural activities are accounted for under IAS # 38 'Intangible Assets'.	

2/1. Overview

- 1. Biological assets are the **core income-producing** assets of agricultural activities. Biological assets are held for their transformative capabilities (trees for fruit *and* chicken for eggs) because biological transformation changes affect the current *and* future flow of economic benefits.
- 2. Biological assets are either:
- **A. Consumable**; are those biological assets that are to be harvested themselves as agricultural produce.

Such as livestock intended for the production of meat or sold alive.

B. Bearer; are those biological assets held to generate agricultural produce.

Such as livestock held to produce milk or for breeding, fruit trees and trees from which firewood is harvested while the tree remains without felling (called plant based bearer biological assets).

Note: Only **plant based bearer** biological assets are subject to IAS # 16 and presented under PPE.

2/2. Recognition of biological assets

The recognition criteria of biological assets are basically consistent with Framework definition of an asset where; living animals or plants should be recognised as assets if:

- 1. The entity controls the biological asset as a result of past event (legal ownership or birth);
- 2. It is probable that the future economic benefits associated with the biological asset will flow to the entity; and
- 3. The F.V (or cost) of the biological asset can be measured reliably.

2/3. Measurement of biological assets

A. Measurement on initial recognition

Biological assets are initially measured at F.V less estimated point-of-sale costs. G'/L' are recognised in P/L.

A gain is recognised in P/L when a new biological asset is born or grows.

A loss is recognised in P/L when biological asset is degenerated or dies.

Note: An expense is recognised in P/L for purchased biological assets at the amount of cost to sell.

Illustrative example: An entity purchased 20 cows for \$60 each during the year. Assume cost to sell was 2%

Required: What is the appropriate entry for the above event?

Answer:

Dr: Biological assets (20 cows × \$60 × 98%) = \$1,176 → F.V less estimated point-of-sale costs

Dr: Expenses $(20 \times \$60 \times 2\%) = \$24 \rightarrow P/L$

Cr: Cash \$1,200

Measurement unit

Biological assets with similar characteristics (e.g. male/female *or* under age 5 /over age 5 *or* sheep for wool/sheep for meat) are **measured** as a **groups** to allow for sustainability in perpetuity.

B. Subsequent measurement

At each reporting date biological assets that remain should be measured at F.V less estimated point-of-sale costs.

The changes in value are recognised as G/L in P/L for the period in which they arise.

- 1. F.V measure of biological assets has greater relevance, reliability, comparability and understandability as a measure of future economic benefits than historical cost especially when an active market exists for the biological asset.
- 2. Exception: If the F.V can't be initially determined because market prices or values are not available then; the biological asset can be measured at **cost** less accumulated depreciation and impairment losses. Once the biological asset's F.V can be measured reliably, it should be re-measured to F.V less estimated point-of-sale costs and the resulting G/L is recognised in P/L.
- 3. If F.V was used on initial recognition then; it should continue to be used.
- 4. F.V of a biological asset is determined in reference to F.V hierarchy set forth under IFRS Accounting Standard #13. *Accordingly*; IAS # 41 allowed several ways of measuring F.V.
- 5. IFRS Accounting Standard #13 requires the F.V of the asset to be determined by reference to the **principal market** for that asset.

This may or may not be the most favorable market and in the absence of a principal market, the **most advantageous** market is used to determine F.V.

6. The most advantageous market is the market which maximises the net selling price that an entity will receive.

Notes:

A. Transportation costs are deducted first to arrive at F.V.

B. Estimated costs to sell include; commissions to brokers and dealers, levies by regulatory agencies and commodity exchanges, transfer taxes and duties but exclude transportation costs and other costs necessary to get assets to the point of sale (market) because these costs are subtracted in determining **F.V**.

Illustrative example (1): Raiser obtained the following prices at the reporting date from the two available markets:

Description	Market (1)	Market (2)
Estimated selling price (Sm)	2.60m	2.80m
Cost of transporting cattle to market (\$m)	0.10m	0.40m
Costs to sell (as % of selling price)	1/2%	1/20/0

The carrying value of the herd at year-end amounted to \$2.10m.

Required: How the F.V of the herd is determined at year-end assuming the principal market can't be determined.

Answer:

A. At the reporting date biological assets are re-measured to F.V less estimated point-of-sale costs with G/L reported in P/L.

B. F.V is defined as the price that would be received from selling an asset in an orderly transaction between market participants at the **measurement** date.

C. F.V is determined by reference to the principal market or in the absence of a principal market, the most advantageous market.

D. The principal market can't be determined so the F.V of the biological assets at year-end must be determined with reference to the most advantageous market.

E. The most advantageous market is the market which maximises the net selling price that the entity will receive.

(I): The net price received in market (1) is 2.487m [($2.60m \times 99.50\%$) - 0.10m].

(II): The net price received in market (2) is 2.386m [($2.80m \times 99.50\%$) - 0.40m].

Thus; market (1) is the most advantageous market and should be used to determine F.V.

F. The F.V of the herd is \$2.50m (\$2.60m - \$0.10m) and the F.V less estimated point-of-sale costs is \$2.487m.

The herd should be recognised at \$2.487m at the reporting date and a gain of \$0.387m (\$2.487m - \$2.10m) will be recorded in P/L as follows:

Dr: Biological assets \$0.387m

Cr: F.V gain \$0.387m → P/L

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Illustrative example (2): During the year Olympic purchased 100 calves at \$40 each. A point-of-sale cost at that time was 2%. At the year-end F.V less estimated point-of-sale costs were \$45 each.

Required: Calculate the amount to be recognised in P/L for the year.

Answer:

A. Amount recognised as expenses at the date of purchase =100 calves \times \$40 \times 2% = \$80.

B. Net amount capitalised as biological assets at the date of purchase = 100 calves \times \$40 \times 98% = \$3,920.

Dr: Biological assets \$3,920 → F.V less estimated point-of-sale costs

Dr: Expenses \$80 → P/L

Cr: Cash \$4,000

C. Net amount capitalised as biological assets at the year-end = 100 calves \times \$45 = \$4,500.

D. Amount recognised as gain at year-end = \$4,500 - \$3,920 = \$580.

Dr: Biological assets (\$4,500 - \$3,920) = \$580

Cr: F.V gain \$580 → P/L

Thus; Net amount recognised as gain for the year = \$580 gain - \$80 expenses = \$500.

E. All operating expenses incurred during the period relating to breeding and feeding those biological assets are recognised in P/L.

Illustrative example (3): On 1, Jan, 2019 a farmer had a herd of 100 cows all of which were 2 years old. At this date the F.V less estimated point-of-sale costs of the herd was \$10,000. On 1, July, 2019 the farmer purchased 20 cows (each two and half years old) for \$60 each. As at 31, Dec, 2019 three year old cows sell at market for \$90 each.

Market auctioneers have charged a sales levy of 2% for many years.

Required: Discuss the accounting treatment of the above in the F/S⁵ for the year-ended 31, Dec, 2019.

Answer:

A. Cows are biological assets that should be initially recognised at F.V less estimated point-of-sale costs.

B. The cows purchased during the year should be initially recognised at \$1,176 [(20 cows × \$60) × 98%].

This will give rise to an immediate expanse recognition in P/L of \$24 [(20 × \$60) - \$1,176].

Dr: Biological assets $\$1,176 \rightarrow F.V$ less estimated point-of-sale costs

Dr: Expenses \$24 → P/L

Cr: Cash \$1,200

C. At year-end the whole herd should be revalued to F.V less estimated point-of-sale costs. Any G/L will be recognised in P/L.

Biological assets at year-end = $120 \times \$90 \times 98\% = \$10,584$.

Carrying value at year-end = beginning balance \$10,000 + cost of purchases \$1,176 = \$11,176.

Loss recognised in P/L = \$11,176 - \$10,584 = \$592.

Dr: F.V loss \$592

Cr: Biological assets \$592

2/4. Presentation of biological assets

- **1.** Biological assets should be presented in the SFP as a **separate** class of assets titled 'biological assets' falling under *neither* current *nor* non-current classifications. This reflects the view of such assets as having an unlimited life on a collective basis.
- **2.** Biological assets should be sub-classified (either on the face of the SFP or as a note to the F/S^5) according to:
- A. Class of animal or plant; or
- B. Nature of activities; consumable such as sheep for meat or bearer such as sheep for wool; or
- C. Maturity or immaturity for intended purpose. Mature biological assets are those that have attained harvestable specifications for consumable biological assets or are able to sustain regular harvests for bearer biological assets.

XX
XX

2/5. Plant-based-Bearer biological assets

(outside the scope of IAS # 41)

1. Plant-based **bearer** biological assets (bearer plants) include plantations trees *such as* vines for grape, rubber trees, tea bushes *and* oil palms. These plants are used solely to grow agricultural produce over several periods *and* are not in themselves consumed. They are usually scrapped at the end of their lives like any productive plant asset.

2. A bearer plant is a living plant that:

- A. Is used in supply of agricultural produce for more than one period; and
- **B.** Has a remote likelihood of being sold as agricultural produce except for incidental scrap sales.
- 3. F.V is not an appropriate measurement for bearer plant biological assets because their economic benefit comes from the agricultural produce they create similar to any productive asset. Consequently bearer plants are excluded from IAS # 41 scope and are accounted for under IAS # 16 'PPE' as self-constructed assets until the point where they capable of being used for its intended purpose. They are measured at accumulated cost until maturity and then become subject to depreciation and impairment charges. Revaluation model under IAS # 16 could also be applied.
- **4.** Any un-harvested agricultural produce growing on a **bearer plant** such as fruits on trees are **biological** asset subject IAS # 41 and measured at F.V less estimated point-of-sale costs at point of harvest.

2/6. Land used in agricultural activities

Although land often forms an integral part of the agricultural activities but land is accounted for under IAS #16'PPE' or IAS #40'Investment Property'.

Illustrative example: Assume total value of the entity's forest assets is \$30m comprising:

Freestanding consumable trees \$22.70m;

- Owned land under trees \$6m;
- Roads in forests \$1.30m.

Required: How the forest's assets would be classified and presented in the SFP?

Answer:

Assets	Amount
Biological assets	
Freestanding trees-consumable → IAS # 41*	\$22.70m
Non-current assets	
Land	\$6m
Other tangible assets-roads in forests (depreciable)	\$1.30m
Current assets	

^{*} If the freestanding trees were **bearer plant** it would be included in **non-current** assets and **measured** under IAS #16.

المنتجات الزراعية

3/1. Overview

- **1. Agricultural produce** is *either* incapable of biological transformation *such as* fire wood *or* the transformation remain dormant *such as* stored grain.
- **2.** Agricultural produce is recognised at the point of harvest as a separate asset (When detached from the biological asset). For example when eggs come out of chicken or when milk is extracted from cows.

المنتجات الزراعية

3/2. Measurement and presentation of agricultural produce

Initial measurement

Agricultural produce should be initially (at the point of harvest) measured at F.V less estimated point-of-sale costs at point of harvest; G/L on initial recognition is recognised in P/L.

Presentation

Agricultural produce is presented separately in the SFP 'as inventory' if remained on hand at year-end.

Illustrative example: During the month the farm's bees produced honey, the F.V less estimated point-of-sale costs at point of harvest amounted to \$100,000.

Required: How the agricultural produce is recorded?

Answer: The honey is initially measured at F.V less estimated point-of-sale costs at point of harvest.

Dr: Inventory-agricultural produce \$100,000

Cr: Gain \$100,000 \rightarrow P/L

Note: Measuring the agricultural produce at F.V less estimated point-of-sale costs at point of harvest is logical because *until* harvest the agricultural produce was valued at the same measurement attribute as part of the biological asset (Bees).

3/3. Accounting treatment of agricultural produce

following the point of harvest

1. If agricultural produce is held unsold after harvest for any reason such as drying or cleaning beans then; initial recognition at F.V less estimated point-of-sale costs at point of harvest ends and this initial value is considered as its deemed cost for application of IAS #2 'Inventories'. The held agricultural produce is measured from that point under 'lower of cost or NRV'.

Illustrative example: A Brazilian entity is considering the valuation of its harvested coffee beans.

In Brazil, Industry practice is to value the coffee beans at F.V less estimated point-of-sale costs.

Required: The entity wishes to adopt IAS # 41 but does not know what the impact will be on its inventory of coffee beans.

Answer: F.V less estimated point-of-sale costs measurement stops after the time of harvest and IAS # 2 'Inventories' applies after that date. Therefore the inventory will be measured at the lower of cost or NRV.

2. Subsequently if NRV of the agricultural produce held as inventory is lower than the initial cost then; impairment loss is recognised in P/L. Reversal is allowed.

Note: This will be rare because agricultural produce is usually sold or processed within a relatively short time.

3. If the entity's agribusiness uses the harvested agricultural produce in some processing activities within integrated agricultural/agribusiness operations; the additional cost is capitalised to inventory and the ending inventory is valued at lower of cost or NRV under IAS # 2. IAS # 41 does not deal with the processing of agricultural produce after harvest.

تعليق عام

4/1.Consistency of F.V less estimated point-of-sale costs measurement

of biological assets

and agricultural produce with conceptual framework

IAS # 41 states that; biological assets and agricultural produce should be measured at F.V less estimated point-of-sale costs. It assumes that the F.V of a biological asset or agricultural produce can be measured reliably.

This presumption can only be rebutted for a biological asset or agricultural produce for which market prices are not available and the alternative measures of F.V are 'clearly unreliable'.

The measurement basis selected by IAS # 41 is one that is visualised in the Framework. *However* the Framework states that; the most common measurement basis used is historical cost. For this to be a basis to produce relevant *and* reliable financial information, the cost of the asset needs to be determinable.

For many biological assets such as newly born calves, the concept of 'cost' is not an easy one to apply and so F.V seems to be more appropriate.

الإفصاحات عن الأصول البيولوجية والمنتجات الزراعية

5/1. Disclosures of biological assets and agricultural produce

1. Aggregate G/L arising during the current period resulting from initial recognition of biological assets and from the changes in F.V less estimated point-of-sale costs;

IAS # 41 encourages companies to present separately in P/L:

- A. Amount of G/L due to physical changes as a measure of agricultural activities performance; and
- B. Amount of G/L due to price changes as a measure of market conditions.

Exception: No separate presentation is needed when production cycle is less than a year (for example; broiler chickens that is ready for sale after reaching the age of five weeks, mushroom growing and cereal crops). In such cases the total change in carrying amount is reported in of P/L as a single item.

- 2. A reconciliation of the carrying amounts of biological assets between the beginning and the end of the reporting period;
- 3. A quantified description of each group of biological assets, distinguishing between consumable and bearer biological assets or between mature and immature biological assets;
- 4. Methods and significant assumptions in determining F.V;
- 5. Description of the biological assets for which the cost model is used and depreciation method, useful lives and depreciation rates used, impairment losses, reversals of impairment losses and an explanation of why F.V can't be measured reliably;
- **6. Financial risk management strategies** related to agricultural activity; because agricultural activity is often exposed to climatic, disease *and* other natural risks;
- 7. Restrictions on title, pledges, commitments in respect of biological asset.

المنح الحكومية المتعلقة بالزراعة

6/1.Government grants

(1) G.G related to biological assets measured at cost less Acc. Dep and impairment losses.	(2) G.G related to biological assets measured at F.V less estimated point-of-sale costs.		
Is accounted for under IAS # 20	G.G is accounted for under IAS # 41 as follows:		
'Accounting for government grants and disclosure of government	(A)	(B)	
assistance'	Unconditional G.G's	Conditional G.G's	
for proper matching i.e. it is recognised over time in a systematic and rational manner in proportion to the related expenses.	The G.G is recognised as other income in P/L when it becomes receivable.	The G.G is initially recognised as deferred income when received. When the attached conditions are satisfied, the G.G is recognised as other income in P/L.	

Thus; IAS # 20 recognition approach is based on matching while G.G' related to biological assets that are measured at F.V less estimated point-of-sale costs under IAS # 41 are recognised in P/L when conditions attached to G.G are satisfied.

This means that recognition of grants relating to PPE under IAS # 20 takes place over the life of the asset rather than when the relevant conditions are satisfied.

Disclosures

- A. The nature and extent of G.G' recognised in the F/S';
- B. Unfulfilled conditions and other contingencies attaching to received G.G'; and
- C. Significant decreases expected in the level of G.G.

نظرة عامة - حالات عملية

7/1.Practical cases

Case study (1): Dairy produces milk on its farms. It produces 25% of the country's milk that is consumed. Dairy owns 300 farms and has a stock of 210,000 cows *and* 105,000 heifers. The farms **produce** 10m K.G of milk a year *and* the average inventory held is 200,000 K.G of milk. *However* Dairy is currently holding stocks of 500,000 K.G of milk in powder form.

At 31, Oct, 2019 the herds are:

- 210,000 cows (3 years old) all purchased on or before 1, Nov, 2018;
- 75,000 heifers average age 11/2 years purchased on 30, April, 2019;
- 30,000 heifers average age 2 years purchased on 1, Nov, 2018.

No animals were born or sold in the year.

The unit F.V less estimated point-of-sale costs was as follows:

Category	F.V less estimated point-of-sale costs
One year-old animal at 31, Oct, 2019.	\$32
Two years-old animal at 31, Oct, 2019.	45
1½ year-old animal at 31, Oct, 2019.	36
Three years-old animal at 31, Oct, 2019.	50
One year-old animal at 1, Nov, 2018 and 30, April, 2019.	30
Two years-old animal at 1, Nov, 2018.	40

Dairy has had problems during the year. Contaminated milk was sold to customers; as a result milk consumption has gone down. The government has decided to compensate farmers for potential loss in revenue from the sale of milk. This fact was published in the national press on 1, Sep, 2019. Dairy received an **official letter** on 10, Oct, 2019 stating that; S6m would be paid to it on 2, Jan, 2020.

Dairy's business is spread over different parts of the country. The only region affected by the contamination was West Yorkshire where the government curtailed milk production in this region. The cattle were unaffected by the contamination and were healthy. Dairy estimates that; the future discounted cash flow from the cattle in the West Yorkshire amounted to \$3.40m after taking into account the government restriction order. Dairy feels that it can't measure the F.V of the cows in the region because of the problems created by the contamination. There are 60,000 cows and 20,000 heifers in the region. All these animals had been purchased on 1, Nov, 2018. A rival company had offered Dairy \$2.80m for these animals after point-of-sale costs and further offered S6m for the farms themselves in that region. Dairy has no intention of selling the farms at present.

Dairy has been applying IAS #41 before 1, Nov, 2018.

Required: How the biological assets and agricultural produce of Dairy should be accounted for under IAS # 41? Discuss the implications on the F/S⁵.

Answer: Biological assets are measured at the end of each reporting period at F.V less estimated point-of-sale costs unless F.V can't be measured reliably.

IAS # 41 encourages companies to separate the change in F.V less estimated point-of-sale costs between those changes due to physical reasons and those due to price (market conditions).

1. F.V of cattle:

As the cattle in the contaminated region are healthy and could be moved to another region and sold, therefore the calculation of F.V less estimated point-of-sale costs would include total animals in all regions.

beginning <i>and</i> the end of the reporti	ng period	
Description	Subtotal	Total
F.V at 1, Nov, 2018		
Cows-two years (210,000 × \$40)	\$8,400	
Heifers-one year (30,000 × \$30)	900	
Purchases during the year		
Heifers-one year (75,000 heifers × \$30)	2,250	-
Total		\$11,55
Increase <i>due to</i> physical change		
[210,000 × (\$50 - \$45)]	1,050	
[30,000 × (\$45 - \$32)]	300	+
[75,000 × (\$36 - \$32)]	390	
Total		1,740
Increase due to price change		
Cows-two years [210,000 × (\$45 - \$40)]	1,050	-
Heifers-one year [30,000 × (\$32 - \$30)]	60	+
Purchased Heifers-one year [75,000 \times (\$32 - \$30)]	150	
Total		1,260
F.V less estimated point-of-sale costs at 31, Oct, 2019		
(210,000 × \$50)	10,500	=
(30,000 × \$45)	1,350	
(75,000 × \$36)	2,700	
Total		14,550

Purchase of 75,000 heifers one year at 30, April, 2019:

Dr: Biological assets $(75,000 \times $30) = $2,250$

Cr: Cash \$2,250

Recording price changes:

Entry	Dr	Cr
Dr: Biological assets-cows [210,000 × (\$45 - \$40)] → as if being at the same age of two years	\$1,050	
Dr: Biological assets -heifers $[30,000 \times (\$32 - \$30)] \rightarrow as$ if being at the same age of one year	\$60	
Dr: Biological assets -cows [75,000 × (\$32 - \$30)] \rightarrow as if being at the same age of one year	\$150	01.000
Cr: Gain from price change		\$1,260

Recording Physical changes:

\$1,740

2. West Yorkshire region-F.V of cattle:

This region has an inventory of cattle of 60,000 cows and 20,000 heifers. F.V is difficult to ascertain because of the region's problems. However according to, IAS # 41 if F.V was used on initial recognition then; it should be continued to be used. The cattle in this region were valued at 1, Nov, 2018 at F.V. Therefore the cattle must be valued at F.V less estimated point-of-sale costs at 31, Oct, 2019. Although \$2.80m has been offered for these animals, this may be an onerous contract as rival companies are likely to wish to take advantage of the problems in this region. The future discounted income of \$3.40m is also inappropriate value as the cattle are healthy and could be moved to another region and sold.

The cattle in this region would therefore be valued at F.V less estimated point-of-sale costs at 31, Oct, 2019 as follows:

Description	Amount
(60,000 cows × \$50)	\$3,000
(20,000 heifers × \$45)	900
Total	3,900

3. Additional points:

A. The powdered milk inventory will be valued under IAS # 2 'Inventories' at the lower of cost and NRV. Because of the large amount of inventory, there may be an obsolescence or possible contamination which might result in, a reduction in the asset's value.

B. Agricultural activities that meet the criteria to be classified as held for sale should be accounted for using IFRS Accounting Standard # 5. The offer for the farms *and* cattle would not meet the criteria under IFRS Accounting Standard # 5 because Dairy has no intention of selling the farm at present. The carrying amount of the assets is unlikely to be recovered principally *through* a sale transaction.

C. Unconditional G.G should be recognised when the grant become receivable. The statement in the national press on 1, Sep, 2019 would not be sufficient to recognise the grant but the official letter of 10, Oct, 2019 would be sufficient. Therefore a debt to receivable-G.G of \$6m and a credit to other income would be recognised in the F/S⁵ to 31, Oct, 2019.

Case study (2): Falcon's main activity is agriculture. Its assets consist of farmland on which sheep (for wool) *and* lambs (for food) are kept *and* bred. Falcon is also involved in forestry.

Details relating to its assets and their F.V³⁵ less estimated point-of-sale costs at 1, June 2019 and 31, May 2020 are as follows:

Description	F.V per unit	
Description	1, June, 2019	31, May,2020
New born lamb	\$25	\$28
Sheep (wool) aged under five	100	105
Sheep (wool) aged over five	80	82
Sheep for lambing aged under six	120	110
Biological assets-animals	Quantities	
New born lamb-can be deemed to be born on 31, May, 2020	None	1,250
Sheep (wool) aged under five	2,000	1,800
Sheep (wool) aged over five	1,000	1,200
Sheep for lambing aged under six	1,500	1,500
Forestry	F.V	
40,000 hectares of land cost of \$500,000 in 1970)	\$720,000	\$740,000
Forest of 200,000 maple trees (planted in 1998)	450,000	475,000

- No mature sheep were born or sold during the year.
- Falcon has a policy of valuing its land on revaluation model.
- Falcon has a stock of cut maple trees at 31, May, 2020 that have F.V of \$280,000. These trees were felled in May, 2019 and recorded at their F.V of \$250,000.
- In March, 2020 Falcon passed a government inspection *and* became eligible to receive a government subsidy of \$320,000 aimed at companies using organic methods of farming. The grant is expected to be received in Sep, 2020.

Required: Prepare statement of P/L and OCI and SFP extracts for the year to 31, May, 2020 in respect of the above items.

Answer:

Statement of P/L and OCI extracts for the year-ended 31, May, 2020		
Description	Subtotal	Tota
Biological assets		
1. Animals		
Gain on physical change (note 5)	\$30,400	
Loss from price change (note 5)	(3,000)	
Net gain on biological assets-animals during the year		27,40
2. Forest-consumable		
Gain on F.V increase in forest (\$475,000 - \$450,000) (note 3)		25,00
3. Other income		
G.G (note 4)		320,00
OCI		
Revaluation gain on land during the year (note 2)		20,00

Entry	Dr	Cr
Dr: Biological assets (1,250 × \$28)	\$35,000	
Cr: Biological assets [200 × (\$105 - \$82)]		\$4,600
Cr: Gain from physical change		\$30,400

Recording Price changes:

Entry	Dr	Cr
Dr: Biological assets [2,000 × (\$105 - \$100)]	\$10,000	
Dr: Biological assets [1,000 × (\$82 - \$80)]	\$2,000	
Dr: Loss on price change	\$3,000	\$15,000
Cr: Biological assets [1,500 × (\$110 - \$120)]		\$15,000

SFP extracts at 31, May, 2020	
Description	Amo
Assets	
Biological assets	
1. Animals [(1,250 × \$28) + (1,800 × \$105) + (1,200 × \$82) + (1,500 × \$110)] (note 5)	\$487,
2. Forest-consumable (note 3)	475,0
Total consumable biological assets	967,4
Non-current assets	
PPE	
Land-carried under revaluation model (note 2)	740,0
Current assets	
Inventory-cut trees @ lower of cost or NRV (note 1)	\$250,
Receivables-G.G (note 4)	320,0
Equity	
Revaluation reserve; increase in F.V of land from \$500,000 to \$740,000 (note 2)	\$240,

Notes:

- 1. Per IAS # 41 after harvest, inventories should be accounted for under IAS # 2 'Inventories'. Inventory is valued at the lower of cost or NRV. *Thus*; the increase in F.V of the cut trees from \$250,000 to \$280,000 is not recognised *until* they are sold.
- 2. Under IAS #16 'PPE' revaluation surplus on the land is recognised in equity (revaluation reserve). *Thus*; the increase in the land from \$500,000 in 1970 to \$740,000 on 31, May, 2020 is presented under revaluation reserve in equity section, of which \$20,000 are reported in OCI for this year.

3. The change in F.V less estimated point-of-sale costs of Forest is recognised in P/L, it is consumable plant based biological asset rather than bearer plant based biological asset because it will be felled when matured; accordingly it is measured under IAS # 41 at F.V less estimated point-of-sale costs and the change in F.V less estimated point-of-sale costs is recognised in P/L.

Note: If the forest trees are held to get fire wood or any agriculture produce without being cut, it would be subject to IAS # 16 and presented under PPE as a bearer plant biological asset.

4. G.G is recognised in P/L because Falcon passed a government inspection and became eligible to receive it.

Dr: Receivable-G.G \$320,000

Cr: Other income-G.G \$320,000

5. As no wool sheep have been bought *or* sold, 200 sheep under five must have become over five during the year because the total sheep's was 3,000 at the beginning of the year *and* at year-end.

Biological assets-animals	Quantities	
Sheep (wool) aged under five	2,000	1,800
Sheep (wool) aged over five	1,000	1,200
Total	3,000	3,000

F.V less estimated point-of-sale costs of animals								
Description 1, June, 2019 31, May, 2020 Differ								
New born lamb (1250 × \$28)	\$0	\$35,000	\$35,000					
Sheep (wool) aged under five (2,000 \times \$100) and (1,800 \times \$105)	200,000	189,000	(11,000)					
Sheep (wool) aged over five (1,000 \times \$80) and (1,200 \times \$82)	80,000	98,400	18,400					
Sheep for lambing aged under six (1,500 \times \$120) and (1,500 \times \$110)	180,000	165,000	(15,000)					
Total change in biological assets-animals	460,000	487,400	27,400					

The change in the carrying amount of \$27,400 of the animals is allocated between change attributable to differences in F.V change and physical change as follows:

Description	Amount
Change in the carrying amount attributable to physical changes	
New born lamb (1,250 × \$28)	35,000
Sheep (wool) were under five become over five [200 × (\$105 - \$82)]	(4,600)
F.V gain attributable to physical change	30,400
Change in the carrying amount attributable to price changes	
Sheep (wool) aged under five [2,000 × (\$105 - \$100)]	\$10,000
Sheep (wool) aged over five [1,000 × (\$82 - \$80)]	2,000
Sheep for lambing aged under six [1,500 × (\$110 - \$120)]	(15,000)
F.V loss attributable to price change	(3,000)
Net gain in biological assets-animals	27,400

مقدمة

1/1. Examinable syllabus guide for DECEMBER 2024 TO JUNE 2025 according to ACCA

Employee benefits

- Describe the nature of short term and long term employee benefits, termination benefits,
 defined contribution, and defined benefits plans.
- Explain the recognition and measurement of short term and long term employee benefits,
 termination benefits and defined contribution and defined benefit plans in the financial
 statements of contributing employers.
- Account for short term and long term employee benefits, termination benefits and defined contribution and defined benefit plans in the financial statements of contributing employers.

After studying our material and solving related questions, please refer back to the points above to make sure you fully cover it well

مقدمة

1/2. Overview

- 1. Employee benefits; 'include all forms of consideration given by an entity in exchange for services rendered by employees'.
- 2. Employees may be full-time or part-time, permanent, temporary or casual.
- **3. Benefits** may be given under formal **plans** *or* agreements, legislative requirements, industry conventions *or* under informal practices which give rise to a constructive obligation.

مقدمة

1/3. Types of employee benefits

IAS #19 identifies four types of employee benefits as follows:

1. Short-term employee benefits: are those **monetary** benefits expected to be settled before twelve months after the end of the reporting period in which employees render the related services; it includes wages and Salaries, Social security contributions, Paid annual leave, Paid sick leave, Paid maternity/Paternity leave, Paid jury service, Paid military service, Vocational holiday benefit, Profit sharing, Bonus **plans**.

Also short-term employee benefits include benefits in kind such as medical care, housing, cars, free or subsidised goods...etc.

- **2. Termination benefits**: are those benefits payable when employment being terminated before the normal retirement date either by the employer or by the employee accepting terms to have employment terminated such as severance pay, early retirement payments and redundancy payments.
- 3. Post-employment benefits: relates to retirement benefits such as pension plans (that represent the main focus of the standard), postemployment medical care benefits, postemployment life insurance and post-employment death benefits paid to employee's spouse or/ and dependants.
- **4. Other long-term employee benefits**: include benefits not within the above classifications *such as* long-service leave, long-term disability benefits *and* sabbatical leave.

Notes:

- A. Benefits may be paid to the employees themselves, to their dependants (spouses, children, etc...) or to third parties.
- B. IAS # 19 addresses the accounting for all employee benefits except for share options and share appreciation rights.

المحاسبة عن مزايا الموظفين قصيرة الأجل

2/1. Accounting for short-term employee benefits

Short term employee benefits are accounted for as any expense that is accrued over the accounting period.

- 1. Wages and salaries are accounted for as follows:
- A. Recognised as an expense when employee services are rendered unless included within the cost of an asset such as finished goods inventory;
- B. Unpaid short-term employee benefits at year-end are recognised as an accrued expense;
- C. Any short-term benefits paid in advance are recognised as a prepayment (to the extent that it will lead to a reduction in future payments or refunded).
- 2. Short-term paid absences (compensated absences) such as holiday pay, sick leave, maternity leave, jury service, study leave and military service are accounted for as follows:

A. Short-term accumulating paid absences:

These are absences for which an employee is paid *and if* the employee's entitlement has not been used up at the end of the period they are **carried forward** to the next period. For examples paid holiday leave *where*; any unused holidays in one year are carried forward to the next year.

The cost of accumulating paid absences should be measured as the additional amount that the entity expects to pay as a result of the unused entitlement that has accumulated at the end of the reporting period and recognised as an employment expense and an obligation called (compensated absences) as the employees rendered service that increases their entitlement to future compensated absences.

Conclusion: Short-term paid absences that are accumulated are recognised when employee services are rendered.

Illustrative example: Younni has 100 employees each is entitled to five working days of paid sick leave for each year and unused sick leave can be carried forward for one year. Sick leave is taken on a LIFO basis (i.e. first is taken out of the current year's entitlement and then out of any balance brought forward). At 31, Dec, 2019 the average unused entitlement is two days per employee. Younni expects (based on past experience which is expected to continue) that 92 employees will take five days or less sick leave in 2020 the remaining eight employees will take an average of 6½ days each. Employees are paid \$200 per day.

Required: State the required accounting for sick leave.

Answer: Youmni expects to pay an additional 12 days (8 employee's ×1½ days) of sick pay as a result of the unused

entitlement that has accumulated at 31, Dec, 2019. Younni should recognise an expense and a liability equal to 12 days of

sick pay.

Dr: Employment expense $\$2,400 \rightarrow P/L$

Cr: Compensated absences payable (sick leave) \$2,400 → Current liability

B. Short-term non-accumulating paid absences

These are absences for which an employee is paid when absences occur and the expense is then recognised. But an

entitlement to the absences does not accumulate. The employee can be absent and is paid when the circumstances arise.

Examples are maternity / paternity pay, sick pay and paid absence for jury service.

Thus; Short-term paid absences that are not accumulated are recognised when absence occurs.

3. Compensations related to profit sharing or bonus plans payable within 12 months after the year-end should be

recognised at the expected amount to be paid when the entity has a present obligation to pay it i.e. when the employer has

no real option but to pay it. This will usually be when the employer recognises the profit or other performance achievement

to which the profit share or bonus relates.

The measurement of the constructive obligation should reflect the possibility that some employees may leave without

receiving a bonus.

Illustrative example: Oman runs a profit sharing plan under which it pays 3% of its net profit for the year to its

employees if none have left during the coming year. Oman estimates that; this will be reduced by staff turnover to 2.50% in

2021.

Required: Which costs should be recognised by Oman for the profit share?

Solution: Oman should recognise a liability and an expense of 2.50% of net profit of 2020.

المحاسبة عن استحقاقات نهاية الخدمة

3/1. Accounting for termination benefits

1. Termination benefits are only those benefits paid when employment is terminated (rather than for employee's services rendered) either by compulsory redundancy or the employee accepting voluntary redundancy.

Thus; benefits paid by retirement or resignation are not termination benefits.

Note: Employee termination may also affect the entity's pension or post-retirement plans through curtailment or amendment. For example redundant employees will no longer accrue services with the entity thus; the P.V of DBO will be reduced.

- 2. Termination benefits are accounted for differently from other employee benefits because the event that gives rise to the entity's obligation to pay termination benefits is the termination of the employment rather than rendering of services by the employee. Thus; entitlement to such payments are not accrued over time
- 3. Such payments are normally in the form of a lump sum (redundancy or retrenchment pay). But it may include enhancement of post-employment benefits or payment of a salary until the end of a notice period 'called gardening leave'.
- 4. Termination benefits become available in a relatively short period prior to any such payment being agreed and paid to the employee. Termination benefits are recognised as an expense and liability at the earlier of the date at which the entity:
- A. Can no longer withdraw the offer of the termination benefits;
- This date is when the employee accepts the offer in the case of voluntary redundancy or
- The date *when* the entity has communicated the plan of termination to affected employees in case of compulsory redundancy.
- **B. Recognises costs** for a restructuring provision (Per IAS # 37) and the restructuring involves the payment of termination benefits.
- 5. The initial and subsequent measurement of the termination benefits depends on when those benefits are expected to be settled. If the termination benefits are expected to be settled before 12 months after the reporting date; apply requirements for short term employee benefits. Otherwise; apply requirements for other long term employee benefits i.e. recognised at its P.V.
- 6. In measuring termination benefits; the entity must distinguish between termination benefits (resulting from termination of employment) and enhancement of post-employment benefits (resulting from services provided). Any benefits related to enhancement of post-employment benefits should be accounted as such.

Illustrative example: As a result of recent acquisition; the entity plans to close a factory in ten months *and* at that time terminate the employment of the remaining employees at the factory. Because the entity needs the expertise of the employees at the factory to complete some contracts; it **announces a termination plan** such that each employee who stays *and* render

services *until* the closure of the factory will receive on termination date a cash payment of \$30,000. Employees leaving before the closure of the factory will receive \$10,000.

There are 120 employees at the factory. At the time of announcing the plan; the entity expects 20 of them to leave before closure.

Required: Explain the accounting treatment of the proposed payment to the employees.

Answer: The total expected cash outflow under the plan are \$3.20m [(20 employees × \$10,000) + (100 employees ×

\$30,000)]. The entity must separately account for the amount paid as termination benefits and the amounts paid in

return for the rendering of services by the employees.

A. Termination benefits:

The amount provided in exchange for termination in employment is \$10,000. This is the amount that the entity would have

to pay for terminating the employment regardless of whether the employees stay and render services until closure or they

leave before closure. Even though the employees can leave before closure; the termination of all employees' employment is a

result of the entity's decision to close the factory and terminate their employment i.e. all employees will leave employment

when the factory closes. Therefore the entity should recognise a liability of \$1.20m for the termination benefits at the

earlier or when the plan of termination is announced and when the entity recognises the restructuring costs associated with

the closure of the factory.

B. Benefits provided in exchange of services:

The incremental benefits that the employees will receive if they stay and provide services for the full ten-month period are in

exchange for services provided over that period. They are not termination benefits as they are conditional on; the

employees providing services over that period. Therefore the entity should account for these benefits as a short term

employee benefits. Because the entity expects to settle them before 12 months after the end of the reporting period;

discounting is not required so an expense of \$0.20m [(\$3.20m -\$1.20m)/10 months] is recognised in each month during the

service period of ten months with a corresponding increase in the carrying amount of the termination liability (current

liability).

المحاسبة عن خطط استحقاقات ما بعد الخدمة - عام

4/1. Accounting for Post-employment benefit plans-General

1. A pension plan or scheme (post-employment benefit plan) consists of a pool of assets together with a liability for

pension benefits owed.

2. Pension plan assets normally consist of investments, cash and (sometimes) properties.

3. Contributions are the amount paid to the plan assets. (Dr: Plan assets \$xx Cr: Cash \$xx)

4. Benefits are the amount of pensions made from the plan to the eligible beneficiaries.

Dr: Pension obligations \$xx

Cr: Plan assets (cash) Sxx

5. Benefits paid to retired employees (pensions) are paid from the contributions received by plan fund and the return

earned on the plan assets.

6. Types of pension plans:

A. Defined contribution plans: are benefit plans where the entity (employer) pays fixed contributions into a separate fund

and the employer will have no legal or constructive obligation to pay further contributions if the fund does not hold

sufficient assets to pay all employee benefits.

Illustrative example: Louisa Co. assumed the obligation to provide an agreed level of contributions to a fund

manager entity. These contributions would be invested for the purpose of pension benefit payment. Louisa is not obligated

to make up any shortfall in the fund's assets.

B. Defined benefit plans: are benefit plans where the benefits payable to the employees are based on formula that takes into

account many factors such as employee age, length of service and compensation. Any shortage in plan assets must be

compensated by the employer who is obligated to provide the agreed amount of benefits to eligible employees. Thus; the

employer in defined benefits scheme retains both investment risk (i.e. plan assets invested will be insufficient to meet the

defined benefit obligation) and actuarial risks (i.e. Defined benefit obligation will cost more than expected).

Illustrative example: Lora guarantees a particular level of pension benefit to its employees upon retirement. The

annual pension that employees will receive is based on the following formula:

Annual benefits = Salary at retirement × (number of year's worked/40 years) × 80%

Because Lora has an obligation to pay additional funds into the pension plan other than annual contributions to meet the

promised level of pension benefits; this pension plan is a defined benefit plan.

7. The accounting for defined benefit plans is more complex than defined contributions plans.

8. In determining whether the scheme is accounted for as a defined contribution or a defined benefit plan; the entity

should consider not only its legal obligation but also its constructive obligation that arises from any informal practices.

Illustrative example: Morgan has a **defined** contribution pension scheme. *However* during the year; it introduced a new post-employment plan (the fund) for its employees as a way of enhancing the benefits they will receive *when* they retire. Morgan makes monthly contributions into the fund that are equal to a set percentage of the salary cost.

Upon retirement employees will receive annual benefits from the fund based on their number of years of service and their final salary. The fund is voluntary and Morgan can cancel it at any time.

Morgan has a history of paying employees benefits that are substantially above the national average with annual increases in excess of inflation. Morgan has won many accolades as a 'top employer' and received positive coverage from the national press when the fund was announced. The leadership team is well trusted by the employees.

Required: Determine from above facts whether the fund is a defined benefit plan or a defined contribution plan.

Answer: Although the fund is voluntary and can be cancelled; Morgan has a history of remunerating its employees above the national average as well as a strong reputation as a good and honest employer. Morgan therefore has a constructive obligation to continue with the fund and to ensure that; its level of assets is sufficient. As a result of the above; the fund should be accounted for as a defined benefit plan. Therefore Morgan has a constructive obligation to compensate for any insufficient assets in the fund particularly if final salaries or life expectancy rise substantially. Thus; Morgan bears investment and actuarial risk of paying the benefits to the retired employees.

- 9. Pension plans could be contributory where employees and employer contribute to the plan or non-contributory where only the employer contributes to the plan.
- 10. The pension plan must has a separate fund from the rest of the entity's assets to which contributions are paid and invested for the fund own purposes. The fund assets and investment returns should not be comingled with the entity's other resources but the fund assets are used to pay employees benefits.
- 11. Multiemployer plan; could be either a defined contribution or a defined benefit plan that pools the assets contributed by various entities that are not under common control and uses those assets to provide benefits to employees of more than one entity.

Illustrative example: Zena contributes to an Industrial pension plan that provides a pension arrangement for its employees. Many of the industry members contribute to that industrial pension plan; Zena makes contributions in respect of each employee. These contributions are kept separate from Zena's assets and are used together with any investment income to purchase annuities for retired employees. The only obligation of Zena is to pay the annual contributions. This pension scheme is a:

- A. Multiemployer plan and a defined contribution scheme.
- B. Multiemployer plan and a defined benefit scheme.
- C. Defined contribution plan only.
- D. Defined benefit plan only.

Answer (A) is correct.

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المحاسبة عن خطط المساهمة المحددة

5/1. Accounting for Defined Contribution Plans

- 1. The pension ultimately received by an employee is a function of; the contributions that have been made by the employer and the investment performance of the fund's assets.
- 2. The pension cost to the employer is fixed and predictable because the employer has no legal or constructive obligation to meet any shortfall in plan assets. Thus; there are no actuarial assumptions required to measure the obligation or expense and there are no actuarial G/L.
- 3. In such plans; the investment and actuarial risks rest with the employee.
- 4. The entity should charge the agreed pension contribution to P/L as an employment expense in each period (unless the relevant labor costs are capitalised).
- 5. Any contributions paid in advance or arrears (accruals) are reflected as prepayments or accruals respectively.
- **6.** If contributions are to be paid after 12 months of the reporting period; the payments should be discounted in calculating the expense and the liability at the end of the reporting period.

Illustrative example: Harris makes **contributions** to a pension fund of employees at a rate of 5% of gross salaries. For convenience; Harris pays \$12,000 per month into the **pension scheme** with any balance being paid in the first month of the following accounting year. The wages *and* salaries for 2019 are \$3m.

Required: Calculate the pension expense for 2019 and the accrual/ prepayment at the year-end.

Answer: This appears to be a defined contribution scheme.

Employment expense = $$3m \times 5\% = $150,000$.

Contributions paid to the pension fund during the year = $12,000 \times 12$ months = 144,000.

Harris SFP will show contributions payable of \$150,000 - \$144,000 = \$6,000.

Harris records	Pension fund records
Dr: Employment expense \$150,000	Dr: Plan assets-cash \$144,000
Cr: Cash \$144,000	Dr: Contributions receivable \$6,000
Cr: Contributions payable \$6,000	Cr: Pension obligation \$150,000

Note: The Pension obligation is reduced by any benefits made to employees in the period.

- 7. Required disclosure in the employer's F/S^s:
- A. A description of the defined contribution plan; and
- **B.** The amount recognised as an expense in the period.

6/1. Introduction

- 1. The assets and liabilities of defined benefit pension plan should not be comingled with the other assets and liabilities of the employer. Defined benefit pension plans require the entity to setup a separate fund to which it will usually have a liability in its F/S^s (called defined benefit obligation 'DBO'). Contributions paid into the fund reduce the employer's liability. This is called funded pension plan.
- 2. The following case study explains the steps to be applied in accounting for the defined benefit plan.

Note: Although double entry approach is not required in the exam but it will facilitate understanding the accounting procedures followed.

Illustrative example (1): The following is the relevant information of Sincere's defined benefit pension plan:

Description	Ye	Year-ended 31, Dec			
Description	Year (1)	Year (2)	Year (3)		
Contributions paid at year-end	\$400	\$410	\$430		
Benefits paid at year-end	220	230	240		
P.V of DBO at year-end	3,300	3,500	3,600		
Discount rate at the start of the year	8%	8%	9%		
F.V of plan assets at year-end	\$4,000	\$3,800	\$3,900		
Expected rate of return on plan assets at the start of the year	10%	11%	10.50%		
Current service cost for the year	300	320	345		

Other information:

- A. F.V of plan assets at the beginning of year (1) \$3,200;
- **B. P.V** of **DBO** at the **beginning** of year (1) \$2,700;
- C. Cumulative actuarial gains at the beginning of year (1) were \$150.

Required: Calculate the amounts that have to be included in the SFP *and* the statement of P/L *and* OCI for years (1) *through* (3).

Assume that; all contributions and benefits payments occur at the year-end to simplify the interest calculations.

Answer: Steps to be followed in accounting for defined benefit plan are as follows:

المحاسبة عن خطط المزايا المحددة

6/2. Recognition

Step (1): Recording contributions received by the plan from the employer:

Description	Entry	Year (1)		Year (2)		Year (3)	
Zestipusa	2,	Dr	Cr	Dr	Cr	Dr	Cr
Contributions received from	Dr: Plan assets	\$400		\$410		\$430	
employer	Cr: Cash		\$400		\$410		\$430

Notes:

- 1. The cash account credited above is the employer's cash rather than the cash related to the plan assets.
- 2. Contributions into the plan are the cash payments paid into the plan during the reporting period by the employer.
- 3. Plan assets increases by contributions received from the employer and credited for benefits paid to the retired employees.
- 4. The plan assets include contributions received from the employer *and* investments specifically related to the plan fund (financial *and* tangible properties) that will generate returns that help payment of employee's benefits.
- 5. Plan assets must be:
- A. Measured at F.V as per IFRS Accounting Standard #13 'F.V Measurement'
- **B.** IAS #19 does not prescribe a maximum time interval between **plan** assets valuations. *However* valuations should be carried out with **sufficient regularity** to ensure that; the reported amounts of the **plan** assets are **not** materially different from its **F.V**⁵ at the reporting date.

Example: Which of the following assets should be included within the valuation of plan assets to F.V?

- A. Unpaid contributions.
- B. Unlisted corporate bonds that is redeemable but not transferable without the entity's permission.
- C. A loan to the entity that can't be assigned to a third party.
- D. Investments in listed companies.

Answer (A) is incorrect. Where there are unpaid contributions at the reporting date; these are not included in the plan assets. Unpaid contributions are treated as a liability owed by the entity/employer to the plan.

Answer (B) is incorrect. Valuation of unlisted securities carries a great deal of subjectivity.

Answer (C) is incorrect. A loan to the entity that can't be assigned to a third party is a **liability** on the entity that is **not** assignable to a third party.

Answer (D) is correct.

6. Plan assets should be separated from the employer's activities and held by a legally separate fund to be solely used for employee benefit payments. Thus; plan assets are not available to the employer's creditors and not returnable to the employer unless the remaining plan assets are sufficient to meet all plan obligations or to reimburse the employer for benefits already paid on behalf of the plan.

Example: Lisa has decided to protect its Pension obligation with an insurance policy. The insurance policy permits Lisa to collect the cash in the insurance policy.

Required: Is this insurance policy a qualifying plan asset?

Answer: This insurance policy is not a qualifying plan asset because the insurance policy permits Lisa (rather than the plan) to collect the amount of the insurance policy. Thus, proceeds from that insurance policy may be used for purposes other than payments of employee benefits.

Step (2): Recording benefits paid by the plan to the employees:

Description	Entry	Year (1)		Yea	r (2)	Yea	r (3)
Description	Luty	Dr	Cr	Dr	Cr	Dr	Cr
Benefits paid by the	Dr: DBO	\$220		\$230		\$240	
plan to employees	Cr: Plan assets		\$220		\$230		\$240

1. Benefits paid are the amounts paid out of the plan assets to retired employees during the period.

Ex: An entity operates a defined benefit plan that pays employees an annual benefit based on their number of years of service. The annual payment does allow the employer to vary the final benefit. Over the last five years the entity has used this flexibility to increase employees' pensions by the current growth in EPS. How will employees' benefits be calculated if they retired in the current period?

A. It will be based on the existing plan rules with no additional award.

B. It will be based on the existing plan rules plus the current growth rate of EPS.

C. It will be based on the plan rules plus the current rate of inflation.

D. It will be based on the plan rules plus the increase in EPS anticipated over the remaining working lives of the employees.

Answer (B) is correct.

2. Benefits paid reduce defined benefit obligation (DBO) and the plan assets.

3. DBO is a long term liability.

4. The DBO balance at each year-end is an actuarial estimate of the P.V of employees benefits earned to date.

This estimate is based on:

A. The benefit plan formula;

B. Demographic assumptions such as mortality rates before and after retirement, employee turnover rate... etc;

C. Financial assumptions such as the salaries rate of increase, promotion, inflation rate and the rate of increase in pension payments after retirement.

5. The actuarial assumptions used to calculate the P.V of the DBO at each year-end must reflect the current market expectations about the periods when the pension benefits will be paid and must be mutually compatible and neither too optimistic nor too conservative.

6. Discounting of DBO is necessary because it will be settled many years in the future and therefore the effect of the time value of money is material. The discount rate used should be determined by market yields on high quality corporate bonds.

7. The actuarial estimate of the DBO at each year-end is calculated using the Projected Unit Credit Method.

Step (3): Calculating interest cost on DBO:

- 1. The discount rate used to calculate the P.V of the DBO (market yields on high quality corporate bonds) is the same rate used to unwind the discount on DBO.
- 2. Interest cost = **beginning** P.V balance of the DBO × Interest rate on high quality corporate bonds at the start of the year.
- 3. Interest cost on beginning balance of DBO is an imputed cost caused by the 'unwinding' of the discounting process (i.e. the DBO is one year closer to settlement).

Description	Year (1)	Year (2)	Year (3)	
Beg balance of DBO	\$2,700 \$3,300		\$3,500	
(×) Beginning interest rate	8%	8%	9%	
Interest cost on DBO	216	264	315	

4. Interest cost on beginning balance of DBO is a component of periodic pension expense that increases P.V of DBO.

Step (4): Calculating expected return on plan assets:

1. Expected return on plan assets = (Beginning F.V balance of plan assets × Expected rate of return at the start of the year) - Expected plan administrative costs.

Description	Year (1)	Year (2)	Year (3)	
Beg balance of plan assets	\$3,200	\$4,000	\$3,800	
(×) Beginning expected rate of return	10%	11%	10.50%	
Expected return on plan assets	320	440	399	

- Expected plan administrative costs should be deducted in arriving at the amount of the expected return on plan assets.
- 3. Expected return on plan assets on beginning F.V balance of the plan assets increases carrying value of plan assets and reduces periodic pension expense.

Step (5): Calculating pension expense:

The components of pension expense are as follows:

Description	Year (1)	Year (2)	Year (3)
Current service cost			
Dr: Pension Exp SXX Cr: DBO SXX	\$300	\$320	\$345
Add: Past service cost (see later)			
Dr: Pension Exp SXX Cr: DBO SXX	0	0	0
Add: Interest cost on DBO (step 3 above)			
Dr: Pension Exp SXX Cr: DBO SXX	216	264	315
Less: Expected return on plan assets (step 4 above)			
Dr: Plan assets \$XX Cr: Pension Exp \$XX	(320)	(440)	(399)
Add or less: The effect of any curtailments or settlements (see later)	0	0	0
Pension expense	196	144	261

 Net interest component = interest cost on beginning balance of DBO - expected return on beginning balance of plan assets.

Description	Year (1)	Year (2)	Year (3)
Add: Interest cost on DBO (step 3 above)	\$216	\$264	\$315
Less: Expected return on plan assets (step 4 above)	(320)	(440)	(399)
Net interest component	(104)	(176)	(84)

- 2. Pension expense is an operating expense that is recognised in P/L and credited to DBO.
- 3. Plan amendments can increase or decrease pension expense (see later). Pension expense could be (Cr) if plan amendments results in substantial decline in DBO (see later).
- Current service cost represents the increase in the P.V of the DBO arising from employee services in the current period.

Note: IAS #19 requires that; current service cost must be recognised as a component of pension expense even if employee's rights to pension benefits are not yet vested. For example a plan may specify that: 'a member who leaves within the first five years of membership forfeits his or her rights to pension benefits under the plan'. IAS # 19 requires the benefit attributable to the first five years to be provided for during these years.

Note: the actuary may reduce the amounts recognised as a component of pension expense based on an actuarial estimate of the probability of leaving before vesting period.

- ◆Vested benefits are postemployment benefits that are earned by the employee and are not contingent upon the employee's continued service.
- 5. Past service cost is the increase in the P.V of DBO resulting from plan amendments that enhances employee benefits on services rendered in prior periods. The additional benefits related to past service cost are **immediately** recognised in P/L as a component of pension expense regardless of whether these benefits are vested or not.
- ♦ Past service cost = P.V of the DBO after plan amendment P.V of the DBO before plan amendment.
- 6. Interest cost is the imputed increase during the period in the P.V of DBO due to passage of time.
- 7. Expected return on plan assets include expected interest, dividends *and* other revenue to be received by the fund from investments of plan assets less expected administrative costs of the plan assets.
- ♦The actual return on plan assets is different from the expected return on plan assets; expected return on plan assets is recognised in P/L as a reduction in pension expense while the difference between expected and actual return on plan assets is reflected in actuarial G/L on plan assets (Step 7).

Step (6): Recording pension expense:

Description En	Entry	Year (1)		Year (2)		Year (3)	
	Ludy	Dr	Cr	Dr	Cr	Dr	Cr
Recording recognised	Dr: Pension expense-P/L	\$196		\$144		\$261	
pension expense	Cr: DBO		\$196		\$144		\$261

Step (7): Calculating actuarial G/L on plan assets:

1. If the F.V of the plan assets at year-end exceeded the carrying value of the plan assets at year-end then; actuarial gain will results and vice versa.

2. Actuarial G/L on plan assets is determined as follows:

Description	Year (1)	Year (2)	Year (3)
Beg balance of plan assets at F.V (given)	\$3,200	\$4,000	\$3,800
Add: Contributions to the plan	400	410	430
Less: Benefits paid to employees	(220)	(230)	(240)
Add: Expected return on plan assets	320	440	399
Carrying value of the plan assets at year-end	3,700	4,620	4,389
Actuarial G/L	300 Gain	820 Loss	489 Loss
Ending balance of plan assets at F.V (given)	\$4,000	\$3,800	\$3,900

- 3. Actuarial gains/losses on plan assets are the difference between the carrying value and F.V of the plan assets at year-end. This difference results because the actual return on plan assets would normally differ from the expected return (that used to calculate the carrying value of the plan assets).
- 4. Actuarial gain on plan assets increases carrying value of the plan assets while actuarial loss on plan assets decreases its carrying value.

Note: The Beg F.V of plan assets balance would be \$nil if the pension scheme is newly introduced.

5. The actual return on plan assets can be determined as follows:

Description	Year (1)	Year (2)	Year (3)
Ending balance of plan assets at F.V	\$4,000	\$3,800	\$3,900
Less: Contributions to the plan	(400)	(410)	(430)
Add: Benefits paid to employees	220	230	240
Less: Beg balance of plan assets at F.V	(3,200)	(4,000)	(3,800)
Actual return on plan assets	620 G	(380) L	(90) L

Note; the actual return on plan assets can be analysed as follows:

Description	Year (1)	Year (2)	Year (3)
Expected return on plan assets	320	440	399
Plus: actuarial gain or minus actuarial loss on plan assets	300 G	(820) L	(489) L
Actual return on plan assets	620	(380)	(90)

Step (8): Recording actuarial G/L on plan assets:

Description	Entry	Year (1)		Year (2)		Year (3)	
Description	Lauy	Dr	Cr	Dr	Cr	Dr	Cr
Recording actuarial gain on	Dr: Plan assets	\$300		-		-	
plan assets	Cr: Actuarial gain on plan assets		\$300		-		1-1
Recording actuarial loss on	Dr: Actuarial loss on plan assets			\$820		\$489	
plan assets	Cr: Plan assets		-		\$820		\$489

Step (9): Calculating actuarial G/L on DBO:

- 1. If the P.V of the DBO at year-end exceeded its carrying value; then actuarial loss will results and vice versa.
- 2. Actuarial G/L on DBO is determined as follows:

Description	Year (1)	Year (2)	Year (3)
Beg balance of DBO at P.V (given)	\$2,700	\$3,300	\$3,500
Add: Current service cost	300	320	345
Add: Past service cost	0	0	0
Add: Interest on DBO	216	264	315
Less: Benefits paid during the year	(220)	(230)	(240)
Carrying value of the DBO at year-end	2,996	3,654	3,920
Actuarial G/L	304 Loss	154 Gain	320 Gain
Ending balance of DBO at P.V (given)	3,300	3,500	3,600

3. Actuarial G/L on DBO is the difference between the carrying value and P.V of the DBO at year-end. This difference results because the P.V of DBO is based on actuarial assumptions such as; life expectancy, future expected salary increases, future employee turnover, mortality rates...etc. these assumptions always change year-over-year.

Ex: Which of these events will cause a change in the P.V of DBO at year-end?

A. Changes in mortality rates or the proportion of employees taking early retirement.

B. Changes in the estimated salaries or benefits that will occur in the future.

C. Changes in the estimated employee turnover.

D. Changes in the discount rate used to calculate P.V of DBO.

E. All of the above.

Answer (E) is correct

Note: The Beg P.V of DBO balance would be \$nil if the pension scheme is newly introduced.

Step (10): Recording actuarial G/L on DBO:

Description	Entry	Year (1)		ar (1) Yea		Year (3)	
	Latty	Dr C	Cr	Dr	Cr	Dr	Cr
Recording actuarial	Dr: Actuarial loss on DBO	\$304				-	
loss on DBO	Cr: DBO		\$304		-		-
Recording actuarial	Dr: DBO	-		\$154		\$320	
gain on DBO	Cr: Actuarial gain on DBO		-		\$154		\$320

Step (11): Netting actuarial G/L on plan assets and DBO:

Description	Year (1)	Year (2)	Year (3)
Actuarial G/L on plan assets	\$300 G	\$820 L	\$489 L
Actuarial G/L on DBO	304 L	154 G	320 G
OCI -Re-measurement loss	4 L	666 L	169 L

Net annual actuarial G/L is recognised on OCI for the year as a re-measurement G/L as follows:

Description Entry	Fatry	Yea	Year (1)		Year (2)		r (3)
	Dr	Cr	Dr	Cr	Dr	Cr	
	Dr: Actuarial gain	\$300		\$154		\$320	
Closing actuarial G/L on OCI	Dr: OCI-re-measurement loss	\$4		\$666		\$169	
G/L on Oct	Cr: Actuarial loss		\$304		\$820		\$489

$\underline{\textbf{Calculation}} \ \ \textbf{of} \ \ \textbf{re-measurement} \ \ \textbf{G/L} \ \ \textbf{under one step approach}$

Description	Year (1)	Year (2)	Year (3)
Beg net asset position	\$500	\$700	\$300
Increased by: Employer contributions to the plan	400	410	430
Increased by: Expected return on plan assets	320	440	399
Reduced by: Current service cost	(300)	(320)	(345)
Reduced by: Interest on DBO	(216)	(264)	(315)
Carrying value of ending net asset position	704	966	469
Actuarial gain or (loss)	(4)	(666)	(169)
Ending net asset position	700	300	300

Note: Benefits paid has zero effect in net pension asset or liability position. So it is not included above.

المحاسبة عن خطط المزايا المحددة

6/3. Presentation

A. SFP

Reported amounts on SFP are as follows:

1. Year-end P.V balance of the DBO is **offset** against the F.V balance of plan assets. The net position is presented as a non-current as follows:

A. If the P.V of DBO at year-end is higher than the F.V of plan assets; there is a plan **deficit** that is presented as noncurrent liability.

B. If the P.V of DBO at year-end is lower than the F.V of plan assets; there is a plan surplus that is presented as noncurrent asset.

Description	Year (1)	Year (2)	Year (3)
F.V of plan assets at the year-end	\$4,000	\$3,800	\$3,900
P.V of plan liabilities at year-end	3,300	3,500	3,600
Net surplus-non-current assets	700	300	300

Note:

A. When the F.V of the plan assets at year-end exceeds the P.V of DBO the net assets position presented in the SFP should not exceed its recoverable amount which is the **lower** of:

- •The figure as calculated above; or
- If the plan is overfunded; the total of the P.V of any refunds expected from the plan plus any reductions in future contributions to the plan because of this surplus.

Thus; the **asset ceiling test** is applied to restrict the reported net plan assets to the expected future benefits in the form of refunds and/or reduced future contributions.

B. IAS #19 does not specify where in the SFP; the net plan asset or liability position should be presented. The manner of presentation is left to the judgment of the reporting entity.

C. It is not necessary to split plan assets and liabilities between current and non-current categories.

D. Net assets and liabilities from different plans should not be offset against each other unless the employer can legally use a surplus on one plan to meet the obligations on another and intends to settle the obligations in this way or to realise the surplus in one plan and settle the obligation of the other at the same time.

Ex: Bora has several pension plans covering various classes of employees. When Bora can present the net assets and liabilities of the various plans?

A. Assets and liabilities of various plans may always be netted.

B. Assets *and* liabilities of various plans may be netted *when* there is a legally enforceable right to use the assets of one plan to settle the obligations of another plan.

- C. When the estimated cash inflows and outflows are similar in pattern.
- D. When the assets and liabilities of various plans are both financial.

Answer (B) is correct: because assets and liabilities may be netted only when there is a legally enforceable right to use the assets of one plan to settle the obligations of another plan and intends to settle the obligations in this way or to realise the surplus in one plan and settle the obligation of the other at the same time.

2. The balance of **cumulative** actuarial G/L is presented within the equity section at year-end as follows:

Description	Year (1)	Year (2)	Year (3)
Cumulative beginning actuarial G/L balance	\$150 G	\$146 G	\$520 L
Net actuarial G/L recognised on OCI for the year (re-measurement G/L)	4 L	666 L	169 L
Year-end AOCI-re-measurement G/L (equity)	146 Cr	520 Dr	689 Dr

Note: According to IAS #19 (R); cumulative actuarial re-measurement G/L is **not** reclassified to P/L *although* it may be transferred within equity.

B. Statement of P/L and OCI

Reported amounts on P/L and OCI are as follows:

Description	Year (1)	Year (2)	Year (3)
Operating expenses			
Net Pension expense	\$196	\$144	\$261
OCI			
Re-measurement G/L	4 L	666 L	169 L
Total charge to CI	200	810	430

Note: IAS #19 does not say how the components of pension expense are to be displayed in P/L.

C. Reconciliation disclosure

The entity should disclose separate reconciliation for the P.V of DBO and the F.V of plan assets showing the movement between the opening and closing balances as follows:

Description	Year (1)	Year (2)	Year (3)
Opening net plan assets	\$500	\$700	\$300
Less: Pension expense and OCI	(200)	(810)	(430)
Add: Employer contributions to the plan	400	410	430
Closing net plan asset position	700	300	300

Note: Because Benefits paid reduce both plan assets and DBO; it has Snil effect on net plan asset or liability position.

Illustrative example (2): The following information relates to a **defined** benefit plan operated by Anglo. At 1, Jan, 2017 the P.V of the DBO was \$1m and the F.V of the plan assets amounted to \$0.90m.

December	Year-ended 31, Dec			
Description	2017	2018	2019	
Contributions paid by employer	\$90	\$95	\$105	
Benefits paid to employees	150	155	160	
P.V of DBO at 31, Dec	1,350	1,340	1,450	
Discount rate at the start of the year	10%	9%	8%	
F.V of plan assets at end of year	1,200	1,150	1,300	
Expected rate of return on plan assets at the start of the year	10%	9%	8%	
Current and past service cost for the year	125	130	138	

Required: Show how the defined benefit plan would be shown in Anglo's F/S' for each of the years-ended 31, Dec, 2017,

2018 and 2019 assuming the balance of actuarial loss at 31, Dec, 2016 was \$100

Answer:

A. Recognition:

Step (1): Recording contributions received by the plan from the employer:

Description	Entry	2017		2018		2019	
	Luty	Dr	Cr	Dr	Cr	Dr	Cr
Contributions received	Dr: Plan assets	\$90		\$95		\$105	
from employer	Cr: Cash		\$90		\$95		\$105

Step (2): Recording benefits paid by the plan to the employees:

Description	Entry	2017		2018		2019	
	Latty	Dr	Cr	Dr	Cr	Dr	Cr
Benefits paid by the	Dr: DBO	\$150		\$155		\$160	
plan to employees	Cr: Plan assets		\$150		\$155		\$160

Step (3): Calculating interest cost on DBO:

1. Interest cost = beginning P.V balance of the DBO × interest rate at the start of the year.

Description	2017	2018	2019
Beg balance of DBO	\$1,000	\$1,350	\$1,340
(×) Beg interest rate	10%	9%	8%
Interest cost on DBO	100	121.50	107.20

2. Interest cost on beginning balance of DBO is a component of periodic pension expense that increases carrying value of DBO.

Step (4): Calculating expected return on plan assets:

1. Expected return on plan assets = (beginning F.V balance of plan assets × expected rate of return at the start of the year) - expected plan administrative costs.

Description	2017	2018	2019
Beg balance of plan assets	\$900	\$1,200	\$1,150
(×) Beg expected rate of return	10%	9%	8%
Expected return on plan assets	90	108	92

2. Expected return on plan assets is a component of periodic pension expense that increases carrying value of plan assets *and* reduces periodic pension expense.

Step (5): Calculating pension expense:

Description	2017	2018	2019
Current and past service cost	\$125	\$130	\$138
Add: Interest cost on DBO (step 3 above)	100	121.50	107.20
Less: Expected return on plan assets (step 4 above)	(90)	(108)	(92)
pension expense	135	143.50	153.20

Step (6): Recording pension expense:

Description	Entry	2017		2018		2019	
Description		Dr	Cr	Dr	Cr	Dr	Cr
Recording recognised	Dr: Pension expense-P/L	\$135		\$143.50		\$153.20	
pension expense	Cr: DBO		\$135		\$143.50		\$153.20

Step (7): Calculating actuarial G/L on plan assets:

Description	2017	2018	2019
F.V of the Beg plan assets balance (given)	\$900	\$1,200	\$1,150
Add: Employer contributions	90	95	105
Less: Benefits paid	(150)	(155)	(160)
Add: Expected return on plan assets	90	108	92
Carrying value of the plan assets at year-end	930	1,248	1,187
Actuarial G/L	270 Gain	98 Loss	113 Gain
F.V of plan assets at year-end (given)	1,200	1,150	1,300

Step (8): Recording actuarial G/L on plan assets:

Description	Entry 2017		2018		2019		
2333	24,	Dr	Cr	Dr	Cr	Dr	Cr
Recording actuarial	Dr: Plan assets	\$270		-		\$113	
gains on plan assets	Cr: Actuarial gain on plan assets		\$270		-		\$113
Recording actuarial	Dr: Actuarial loss on plan assets			\$98			
losses on plan assets	Cr: Plan assets				\$98		-

Step (9): Calculating actuarial G/L on DBO:

Description	2017	2018	2019
P.V of the beg DBO balance (given)	\$1,000	\$1,350	\$1,340
Add: Current and past service cost	125	130	138
Add: Interest on DBO	100	121.50	107.20
Less: Benefits paid during the year	(150)	(155)	(160)
Carrying value of the DBO at year-end	1,075	1,446.50	1,425.20
Actuarial G/L	275 Loss	106.50 Gain	24.80 Loss
P.V of DBO at year-end (given)	1,350	1,340	1,450

Step (10): Recording actuarial G/L on DBO

Description	Entry	2017		2018		2019	
	Entry	Dr	Cr	Dr	Cr	Dr	Cr
Recording actuarial	Dr: DBO	-		\$106.50		-	
gains on DBO	Cr: Actuarial gain on DBO		-		\$106.50		
Recording actuarial	Dr: Actuarial loss on DBO	\$275		-		\$24.80	
loss on DBO	Cr: DBO		\$275		•		\$24.80

Step (11): Netting actuarial G/L on plan assets and DBO

Description	2017	2018	2019
Actuarial G/L on plan assets	\$270 Gain	\$98 Loss	\$113 Gain
Actuarial G/L on DBO	275 Loss	106.50 Gain	24.80 Loss
OCI-Re-measurement G/L	5 Loss	8.50 Gain	88.20 Gain

Net annual actuarial G/L is recognised on OCI for the year as a re-measurement G/L as follows:

Description	Description Entry		2017		2018		2019	
2	,	Dr	Cr	Dr	Cr	Dr	Cr	
	Dr: Actuarial gain	\$270		\$106.\$		\$113		
Closing actuarial	Dr: OCI-Re-measurement loss	\$5		50		-		
G/L on OCI	Cr: Actuarial loss		\$275	-	\$98		\$24.80	
	Cr: OCI-Re-measurement gain				\$8.50		\$88.20	

Calculation of re-measurement G/L under one step:

Description	2017	2018	2019
Beg net liability position	\$100	\$150	\$190
Reduced by: Employer contributions to the plan	(90)	(95)	(105)
Reduced by: Expected return on plan assets	(90)	(108)	(92)
Increased by: Current and past service cost	125	130	138
Increased by: Interest on DBO	100	121.50	107.20
Carrying value of ending net liability position	145	198.50	238.20
Actuarial (gain) or loss	5	(8.50)	(88.20)
Ending net liability position	150	190	150

Note: Benefits paid has zero effect in net pension asset or liability position. So it is not included above.

B. Presentation and disclosure:

1. Year-end P.V balance of DBO is **offset** against F.V balance of plan assets. The net position is presented in the SFP as a non-current liability/asset.

Description	2017	2018	2019
F.V of plan assets at year-end	\$1,200	\$1,150	\$1,300
P.V of plan liabilities at year-end	1,350	1,340	1,450
Net Deficit-non-current liabilities	150 Deficit	190 Deficit	150 Deficit

2. The balance of cumulative actuarial G/L is presented within the equity section at year-end as follows:

Description	2017	2018	2019
Cumulative beginning actuarial loss	\$100 L	\$105 L	\$96.50 L
Net actuarial G/L recognised on OCI for the year (re-measurement G/L)	5 L	8.50 G	88.20G
Year-end cumulative re-measurement loss (equity)	105 Dr	96.50 Dr	8.30 Dr

Note: Cumulative actuarial re-measurement G/L is not reclassified to P/L, although it may be transferred within equity.

3. Reported amounts on P/L $\it and$ OCI are as follows:

Description	2017	2018	2019
Operating expenses			
Net pension expense	\$135	\$143.50	\$153.20
OCI			
Re-measurement G/L	5 loss	8.50 G	88.20G
Total charge to CI	140	135	65

4. A separate reconciliation showing the movement between the opening and closing balances for the net pension liability or asset position should be disclosed as follows:

Description	2017	2018	2019
Opening net plan liability	\$(100)	S(150)	\$(190)
Increased by: Pension expense and OCI	(140)	(135)	(65)
Reduced by: Employer contributions to the plan	90	95	105
Closing net plan liability	(150)	(190)	(150)

Note: Because benefits paid reduce both plan assets and DBO; it has \$nil effect on net plan assets.

Illustrative example (3): Ralph is an entity that operates a **defined** benefit retirement benefits plan into which it makes contributions.

On 31, March, 2017 the SFP of Ralph showed a net liability relating to retirement benefit obligations as follows:

Market value of plan assets \$60,000

P.V of plan liabilities (70,000)

(10,000)

The balance of cumulative actuarial loss at 31, March, 2017 was \$2,000.

Information relating to the plan for the next three years is as follows:

Description	For the y	For the year-ended 31, March			
Description	2018	2019	2020		
Employer contributions to the plan	\$4,000	\$4,300	\$4,400		
Benefits paid out to employees	3,500	3,600	3,600		
P.V of plan liabilities at year-end	84,000	96,000	108,000		
Interest on obligation	7,000	7,560	7,680		
Market value of plan assets at year-end	62,000	64,000	66,000		
Expected return on plan assets	3,000	3,200	3,500		
Current service cost	6,000	6,400	6,500		

Assume all transactions are assumed to occur at the year-end.

Required: Prepare appropriate extracts from the statement of P/L and OCI and the SFP to show the effects of the retirement benefits plan covering each of the three years ending on 31, March, 2018, 2019 and 2020 together with a reconciliation of the movement on the defined benefit obligation /asset for each year.

Answer:

A. Recognition:

Step (1): Recording contributions received by the plan from the employer:

Description	Entry		2018		2019		2020	
2000	2,	Dr	Cr	Dr	Cr	Dr	Cr	
Contributions received	Dr: Plan assets	\$4,000		\$4,300		\$4,400		
from employer	Cr: Cash		\$4,000		\$4,300		\$4,400	

Step (2): Recording benefits paid by the plan to the employees:

Description	Description Entry		18	20	19	20	20
Ziviipiiva	2,	Dr	Cr	Dr	Cr	Dr	Cr
Benefits paid by the	Dr: DBO	\$3,500		\$3,600		\$3,600	
plan to employees	Cr: Plan assets		\$3,500		\$3,600		\$3,600

Step (3): Calculating interest cost on DBO:

Interest cost is given as follows:

Description	2018	2019	2020
Interest cost on DBO (given)	\$7,000	\$7,560	\$7,680

Step (4): Calculating expected return on plan assets:

Expected return on plan assets is given as follows:

Description	2018	2019	2020
Expected return on plan assets (given)	\$3,000	\$3,200	\$3,500

Step (5): Calculating pension expense

Description	2018	2019	2020
Current service cost	\$6,000	\$6,400	\$6,500
Add: Interest cost on DBO (Step 3 above)	7,000	7,560	7,680
Less: Expected return on plan assets (Step 4 above)	(3,000)	(3,200)	(3,500)
Pension expense	10,000	10,760	10,680

Pension expense is an operating expense that is recognised in P/L and credited to DBO.

Step (6): Recording pension expense:

Description	Entry	2018		2018 2019		19 2020	
2	,	Dr	Cr	Dr	Cr	Dr	Cr
Recording recognised	Dr: Pension expense-P/L	\$10,000		\$10,760		\$10,680	
pension expense	Cr: DBO		\$10,000		\$10,760		\$10,680

Step (7): Calculating actuarial loss on plan assets:

Description	2018	2019	2020
F.V of Beg plan assets balance (given)	\$60,000	\$62,000	\$64,000
Add: Employer contributions to the plan	4,000	4,300	4,400
Less: Benefits paid out	(3,500)	(3,600)	(3,600)
Add: Expected return on plan assets	3,000	3,200	3,500
Carrying value of the plan assets at year-end	63,500	65,900	68,300
Actuarial loss	1,500 L	1,900 L	2,300 L
F.V of plan assets at year-end (given)	62,000	64,000	66,000

Step (8): Recording actuarial loss on plan assets

Description	Entry	2018		2019		2020	
Distription	Zim,	Dr	Cr	Dr	Cr	Dr	Cr
Recording actuarial	Dr: Actuarial loss on plan assets	\$1,500		\$1,900		\$2,300	
losses on plan assets	Cr: Plan assets		\$1,500		\$1,900		\$2,300

Step (9): Calculating actuarial loss on DBO:

Actuarial loss on DBO is determined as follows:

Description	2018	2019	2020
P.V of the Beg DBO balance (given)	\$70,000	\$84,000	\$96,000
Add: Current service cost	6,000	6,400	6,500
Add: Interest on DBO	7,000	7,560	7,680
Less: Benefits paid during the year	(3,500)	(3,600)	(3,600)
Carrying value of the DBO at year-end	79,500	94,360	106,580
Actuarial loss	4,500 L	1,640 L	1,420 L
P.V of DBO at year-end (given)	84,000	96,000	108,000

Step (10): Recording actuarial loss on DBO:

Description	Entry	2018		2019		2020	
	,	Dr	Cr	Dr	Cr	Dr	Cr
Recording actuarial	Dr: Actuarial loss on DBO	\$4,500		\$1,640		\$1,420	
loss on DBO	Cr: DBO		\$4,500		\$1,640		\$1,420

Step (11): Total actuarial loss on plan assets and DBO:

Description	2018	2019	2020
Actuarial loss on plan assets	\$1,500	\$1,900	\$2,300
Actuarial loss on DBO	4,500	1,640	1,420
OCI-Re-measurement loss	6,000 L	3,540 L	3,720 L

Net annual actuarial loss is recognised on OCI for the year as a re-measurement loss as follows:

Description	Entry	2018		2018 201		19	20	20
Description	Entry	Dr	Cr	Dr	Cr	Dr	Cr	
Closing actuarial	Dr: OCI-Re-measurement loss	\$6,000		\$3,540		\$3,720		
G/L on OCI	Cr: Actuarial loss		\$6,000		\$3,540		\$3,720	

Calculation of re-measurement G/L under one step

2018	2019	2020
\$10,000	\$22,000	\$32,000
(4,000)	(4,300)	(4,400)
(3,000)	(3,200)	(3,500)
6,000	6,400	6,500
7,000	7,560	7,680
16,000	28,460	38,280
6,000 L	3,540 L	3,720 L
22,000	32,000	42,000
	\$10,000 (4,000) (3,000) 6,000 7,000 16,000 L	\$10,000 \$22,000 (4,000) (4,300) (3,000) (3,200) 6,000 6,400 7,000 7,560 16,000 28,460 6,000 L 3,540 L

Note: Benefits paid has zero effect in net pension asset or liability position. So it is not included above.

.B. Presentation and disclosure:

1. Year-end P.V balance of DBO is **offset** against F.V balance of plan assets, the net position is presented in the SFP as a non-current liability/asset.

Description	2018	2019	2020
F.V of plan assets at year-end	\$62,000	\$64,000	\$66,000
P.V of plan liabilities at year-end	84,000	96,000	108,000
Net deficit-non-current liabilities	22,000 Deficit	32,000 Deficit	42,000 Deficit

2. The balance of cumulative actuarial loss is presented within the equity section at year- end as follows:

Description	2018	2019	2020
Cumulative beginning balance of actuarial loss	\$2,000 L	\$8,000 L	\$11,540 L
Net actuarial loss recognised on OCI for the year (re-measurement G/L)	6,000 L	3,540 L	3,720 L
Year-end cumulative re-measurement loss (equity)	8,000 Dr	11,540 Dr	15,260 Dr

Note: Cumulative actuarial re-measurement G/L is not reclassified to P/L, although it may be transferred within equity.

3. Reported amounts on P/L and OCI are as follows:

Description	2018	2019	2020
Operating expenses			
Net pension expense	\$10,000	\$10,760	\$10,680
OCI			
Re-measurement G/L	6,000 L	3,540 L	3,720 L
Total charge to CI	16,000	14,300	14,400

4. A separate reconciliation, showing the movement between the opening and closing balances for the net pension liability or asset position should be disclosed as follows:

Description	2018	2019	2020
Opening net plan liability	\$10,000	\$22,000	\$32,000
Increased by: Pension expense and OCI	16,000	14,300	14,400
Reduced by: Employer contributions to the plan	(4,000)	(4,300)	(4,400)
Closing net plan liability	22,000	32,000	42,000

Note: Because benefits paid reduce both plan assets and DBO; it has \$nil effect on net plan assets.

اختبار سقف الأصول

7/1. The 'asset ceiling test'

- 1. If a defined benefit plan is in surplus (rarely) IAS #19 states that; the surplus must be measured at the lower of:
- A. The amount calculated as normal; or
- **B.** The total of the P.V of any future refunds from the plan *or/and* reductions in future contributions to the plan that are possible because of the surplus.

This is known as applying the 'asset ceiling' .i.e. a surplus can only be recognised to the extent that; it will be recoverable in the form of refunds *or/and* reduced contributions in the future to ensure that; the surplus recognised in the F/S^s meets the definition of an 'asset' (a resource controlled by the entity that will lead to a probable inflow of economic benefits)

- 2. Expected return on plan assets would be calculated based on asset ceiling
- 3. The difference between actual F.V of net assets and the asset ceiling is included in OCI-re-measurement component.

Illustrative example (1): The following information relates to the **defined benefit plan** operated by Tosca for the year-ended 30, June, 2020:

Description	Amount
F.V of plan assets at 30, June, 2019	\$2,600m
P.V of DBO at 30, June, 2019	2,000
Current service cost for the year	100
Benefits paid in the year	80
Contributions into plan	90
F.V of plan assets at 30, June, 2020	3,100
P.V of DBO at 30, June, 2020	2,400

Discount rate for the DBO and expected return on plan assets is 10%

Tosca has identified that the asset ceiling at 30, June, 2019 and 30, June, 2020 based upon the P.V of future refunds from the plan or/and reductions in future contributions amounts to \$2,200m at 30, June, 2019 and \$2,600m at 30, June, 2020.

Required: Explain with supporting calculations the accounting treatment of the pension scheme for the year-ended 30, June, 2020.

Description	Entry	Am	ount
Distription		Dr	Cr
1. Contributions received from	Dr: Plan assets	\$90m	
employer.	Cr: Cash		\$90m
2. Benefits paid by the plan to	Dr: DBO	\$80m	
employees.	Cr: Plan assets		\$80m
3. Recording recognised pension	Dr: Pension expense-P/L	\$80m	
expense (1)	Cr: DBO		\$80m
4. Recording actuarial gain on plan	Dr: Plan assets	\$270m	
assets (2)	Cr: Actuarial gain on plan assets		\$270m
5. Recording actuarial loss on DBO (3)	Dr: Actuarial loss on DBO	\$180m	
3. According actualian loss on DBO (3)	Cr: DBO		\$180m
	Dr: Actuarial gain	\$270m	
6. Closing actuarial G/L on OCI (4)	Cr: Actuarial loss		\$180
	Cr: OCI-re-measurement gain		\$90

Pension expense (1)	Amount
Current service cost	\$100m
Add: Interest cost on DBO (\$2,000 × 10%)	200m
Less: Expected return on plan assets adjusted for asset ceiling (\$2,200 × 10%)	(220)m
Pension expense	80m

Calculating actuarial gain on plan assets (2)	Amount
F.V of the Beg plan assets	\$2,600m
Add: Employer contributions to the plan	90m
Less: Benefits paid out	(80)m
Add: Expected return on plan assets	220m
Carrying value of the plan assets at year-end	2,830
Actuarial gain	270m G
F.V of plan assets at year-end	3,100m

Calculating actuarial loss on DBO (3)	Amount
P.V of the beg DBO balance (given)	\$2,000m
Add: Current service cost	100m
Add: Interest on DBO	200m
Less: Benefits paid during the year	(80)m
Carrying value of the DBO at year-end	2,220m
Actuarial loss	180m L
P.V of DBO at year-end (given)	2,400m

Net actuarial gain on plan assets and DBO (4)	Amount
Actuarial gain on plan assets	\$270m G
Actuarial loss on DBO	180m L
OCI-re-measurement gain	90m G

Calculation of re-measurement G/L under one step:

Description	Amount
Beg net asset position (\$2,600 - \$2,000)	\$600m
Add: Employer contributions to the plan	90m
Add: Expected return on plan assets	220m
Less: Current service cost	(100)m
Less: Interest on DBO	(200)m
Carrying value of ending net asset position	610
Add: Actuarial gain	90
Ending net asset position (\$3,100m - \$2,400m)	700m

Note: Benefits paid has zero effect on net pension asset or liability position; so it is not included above.

Excess of the asset ceiling during the year (5)	Amount
Ending net plan assets in excess of asset ceiling (\$3,100 - \$2,600)	\$500m
Beg net plan assets in excess of asset ceiling (\$2,600 - \$2,200)	400m
Excess of the asset ceiling during the year included in OCI-re-measurement gain	100m

The difference between the F.V of net assets *and* the asset ceiling is included in re-measurement component categorised as OCI. *Thus*; the \$400m that was recognised as re-measurement gain in OCI at 30, June, 2019 are increased by \$100m for the year-ended 30, June, 2020.

B. Presentation and disclosure:

1. Year-end P.V balance of DBO is **offset** against F.V balance of plan assets, the net position is presented in the SFP as a non-current liability/asset.

Description	Amount
F.V of plan assets at the year-end	\$3,100
P.V of Plan liabilities at year-end	2,400
Net asset position-non-current assets	700m Surplus

2. The balance of cumulative actuarial G/L is presented within the equity section at year-end as follows:

Description	Amount
Cumulative beginning actuarial G/L	???*
Net actuarial gain recognised on OCI for the year (re-measurement G/L)	90 Gain
Year-end cumulative re-measurement G/L (equity)	???

^{*} Included in the beginning balance of AOCI-cumulative actuarial G/L \$400 that represents excess of the asset ceiling of the beginning balance (\$2,600 - \$2,200).

[♦] Cumulative actuarial re-measurement G/L is not reclassified to P/L although it may be transferred within equity.

3. Reported amounts on P/L and OCI are as follows:

Description	Amount
Operating expenses	
Net pension expense	(\$80m)
OCI	
Re-measurement gain	90m
Net effect on CI	10m

4. A separate reconciliation, showing the movement between the opening and closing balances for the net pension liability or asset position should be disclosed as follows:

Description	Amount
Opening net plan assets (\$2,600m - \$2,000m)	\$600m
Plus: Employer contributions to the plan	90m
Plus: Net positive effect on CI	10m
Closing net plan asset (\$3,100 - \$2,400)	700m

Note: Because benefits paid reduce both plan assets and DBO; it has \$nil effect on net plan assets.

Illustrative example (2): IAS #19 'Employee benefits' is applied to all employee benefits other than those to which IFRS Accounting Standard # 2 Share-based payment applies. Accounting for short-term employee benefits is relatively straightforward. However accounting for post-employment benefits can be rather more complex. This particularly applies where post-employment benefits are provided via defined benefit plans.

Required: Explain the amounts that should be included in the F/S⁵ of employers regarding post-employment benefits provided via defined benefit plans (ignore the effect of re-measurements).

Answer: An employer's SFP should show the net liability or asset position relating to the defined benefit plans. Since the plan will make the future payments (to the employees) from its own funds; the employer recognises a liability (or an asset) to the extent to which it will have to pay more into the plan fund for the plan to be able to make those payments. Net asset or liability position is the difference between the F.V of the plan's assets and the P.V of the plan liability to the employees. This liability (or asset) would then be adjusted for any re-measurements by the actuary as well as for any future payments to be made that relate to past service costs that have not been recognised yet i.e. Employment in prior periods. If there is an asset in relation to the plan this should then be measured as the lower of the figure just calculated and the total of the P.V of any economic benefits available in the form of refunds from the plan or/and reductions in future contributions to the plan that are possible because of the surplus.

The statement of P/L would recognise for the year expenses for:

- A. The current service cost;
- B. Past service costs;
- C. The effect of any curtailments or settlements;
- D. Net interest on the net defined benefit asset or obligation;

But gains or losses on re-measurement of the net asset or liability would be recognised within OCI. It is never reclassified to P/L although it may be transferred within equity.

التغيير من خطة المعاشات التقاعدية المحددة المزايا إلى خطة المساهمة المحددة

8/1. Change from defined benefit pension plan

to defined contribution plan

G/L resulting from a change from a defined benefit pension plan to a defined contribution plan is immediately

recognised in P/L through an increase or decrease in pension expense with a corresponding adjustment to plan assets and

pension liability.

Illustrative example (1): On 31, Dec, 2019 Wella changed its defined benefit pension plan to a defined

contribution plan. Wella agrees with the employees to pay them \$9m in total on the introduction of a defined benefit plan.

The employees forfeit any pension entitlement for the previous defined benefit plan. The pension liability balance

recognised in the SFP on the date of settlement was \$10m.

Required: How should this curtailment accounted for in the SFP at 31, Dec, 2019?

Answer: A settlement gain of \$1m should be recognised as follows:

Dr: DBO \$10m

Cr: Plan assets \$9m

Cr: Pension expense-settlement gain \$1m

Illustrative example (2): Torintino operates a defined benefit pension plan and changes it on Jan, 1, 2020 to a

defined contribution plan. The defined benefit plan still relates to past service but not to future service. The net pension

liability after the plan amendment is \$50m and the net pension liability before the amendment was \$90m. How should

Torintino account for this change?

A. Recognises a gain of \$40m by reducing pension expense and pension liability.

B. Does not recognise a gain.

C. Recognises a gain of \$40m over the remaining service lives of the employees.

D. Recognises the gain in OCI.

Answer (A) is correct.

9/1. Defined benefit plan amendments

1. Plan amendment may increase or decrease employee benefits. The increase or decrease in the **P.V** of the **DBO** as a result of the plan amendment is added to or subtracted from pension expense in the period of amendment.

2. Past service cost is the increase in the P.V of DBO resulting from plan amendments that enhances employee benefits on services rendered in prior periods. The additional benefits related to past service cost are immediately recognised in P/L as a component of pension expense <u>regardless of whether</u> these benefits are vested or not.

Illustrative example: Andrea operates a pension plan that provides a pension of 2% of final salary for each year of service. On 1, Jan, 2019 Andrea improves the pension benefits to 2.50% of final salary for each year of service including service before this date. Employees must have worked for Andrea for at least five years in order to obtain this increased benefit. At the date of the improvement; the **P.V** of the additional benefits for the past service from 1, Jan, 2015 to 1, Jan, 2019 is as follows:

Additional benefits related to:	Amount
Employees with more than five years' service at 1, Jan, 2019	\$150,000
Employees with less than five years' service at 1, Jan,2019 (average length of service: two years)	120,000
Total additional benefits related to employees	270,000

Required: Explain how the additional benefits are accounted for in Andrea's F/S⁵.

Answer: Andrea should recognise all \$270,000 immediately as an increase in **DBO** following the amendment to the plan on 1, Jan, 2019. The \$270,000 will be fully recognised as a pension expense-past service cost. Whether or not the benefits have vested by the reporting date is not relevant to their recognition as an expense in P/L.

Dr: Pension expense-past service cost \$270,000

Cr: DBO \$270,000

3. Plan curtailment is a significant reduction in the number of employees covered by a pension plan. This may be a consequence of an individual event such as plant closure or discontinuance of an operation or activity within the entity which will typically result in employees being made redundant.

◆Any G/L resulting from plan curtailment is fully recognised as an increase or decrease in pension expense that corresponds to any decrease or increase in DBO.

4. Under plan curtailment without settlement the redundant employees will remain in the scheme *but* will earn no further pension benefits after being made redundant. *Accordingly*; the DBO will not increase as they will not render future services to the entity. On the other hand; the redundant employees will be paid a pension *when* they reach retirement age.

G/L on plan curtailment without settlement is recognised in P/L as increase or decrease in pension expense and a corresponding decrease or increase in DBO.

Illustrative example: Lockheed decides to close a business segment. The segment's employees will be made redundant and will earn no further pension benefits after being made redundant. Their plan assets will remain in the scheme so that; the employees will be paid a pension when they reach retirement age (plan curtailment without settlement). Before the curtailment the scheme assets had a F.V of S5m and the DBO had a P.V of S6m. It is estimated that; the curtailment will reduce the P.V of the future obligation by 10% because the employees will not benefit from future salary increases and therefore will be entitled to a smaller pension than previously estimated.

Required: What is the net G/L on curtailment and how will this be treated in Lockheed F/S⁵?

Answer: The P.V of DBO is reduced by \$6m ×10% = \$0.60m with no change in the F.V of the assets as they remain in the plan. The reduction in the DBO represents a gain on curtailment which should be recognised immediately as reduction in pension expense in P/L for the year.

Dr: DBO \$0.60m

Cr: Pension expense \$0.60m

The net position of the plan before and after the curtailment will be as follows:

Description	Before	After
P.V of DBO	\$6m	\$5.40m
F.V of plan assets	5m	5m
Net liability position	1m	0.40m

5. Plan curtailment with settlement occurs when the entity enters into a transaction to eliminate legal or constructive obligation for part or all of the benefits provided under the plan. For example an employee may leave the entity for a new job elsewhere and a payment is made from that pension plan to the pension plan operated by the new employer. The G/L on curtailment with settlement comprises the difference between the F.V of the plan assets paid out and the reduction in the P.V of DBO. This G/L is recognised in P/L as a component of pension expense on the date when the entity eliminates the obligation for all or part of the benefits settled.

6. All changes in plan amendments are recognised at the earlier of: 'when the plan amendment or curtailment occurs or when the entity recognises related restructuring costs or termination benefits'.

Illustrative example: The following data applies to the post employment defined benefit plan of Alberto.

- Discount rate: 10% (each year)
- P.V of DBO at start of 2017: \$1m.
- Market value of plan assets at start of 2017: \$1m.

The following figures are relevant:

Description	2017	2018	2019
Current service cost	\$140m	\$150m	\$150m
Benefits paid out	120	140	150
Contributions paid by Alberto	110	120	120
P.V of DBO at year-end	1,200	1,650	1,700
F.V of plan assets at year-end	1,250	1,450	1,610

Additional information:

A. At the end of 2018 a division of Alberto was sold. As a result a large number of the employees of that division opted to transfer their accumulated pension entitlement to their new employer's plan. Assets with F.V of \$48m were transferred to the other entity's plan *and* the actuary has calculated the reduction in Alberto's DBO at \$50m. The year-end valuations in the table above were carried out before this transfer was recorded.

B. At the end of 2019 a decision was taken to make a one-off additional payment to former employees currently receiving pensions from the plan. This was announced to the former employees before the year-end. This payment was not allowed for in the original terms of the plan. The actuarial valuation of the obligation in the table above includes the additional liability of \$40m relating to this additional payment.

Required: Show how Alberto should account for this defined benefit plan in years from 2017 through 2019.

Answer:

A. Recognition:

Step (1): Recording contributions received by the plan from the employer:

Description	Entry	2017		2018		2019	
2000.	2,	Dr	Cr	Dr	Cr	Dr	Cr
Contributions received	Dr: Plan assets	\$110		\$120		\$120	
from employer	Cr: Cash		\$110		\$120		\$120

Step (2): Recording benefits paid by the plan to the employees:

Description	Entry	2017		2018		2019	
Distription	2,	Dr	Cr	Dr	Cr	Dr	Cr
Benefits paid by the plan	Dr: DBO	\$120		\$140		\$150	
to employees	Cr: Plan assets		\$120		\$140		\$150

Step (3): Recording partial settlement at the end of 2018:

Plan curtailment at the end of 2018 would *result in* reduction in **DBO** at \$50m *and* reduction in **plan** assets at \$48m, the difference is settlement gain that reduces pension expense as follows:

Description	Entry	Entry 2017	20	18	20	19	
Distription	Zinty	Dr	Cr	Dr	Cr	Dr	Cr
Recording Plan curtailment with settlement	Dr: DBO Cr: Plan assets Cr: Pension expense			\$50	\$48 \$2		

Step (4): Calculating interest cost on DBO:

1. Interest cost = beginning P.V balance of the DBO \times interest rate at the start of the year.

Description	2017	2018	2019
Beg balance of DBO	\$1, <mark>0</mark> 00	\$1,200	\$1,650 - \$50 = 1,600 *
(×) Beg interest rate	10%	10%	10%
Interest cost on DBO	100	120	160

2. Interest cost on beginning balance of DBO is a component of periodic pension expense that increases carrying value of DBO.

Step (5): Calculating expected return on plan assets:

1. Expected return on plan assets = (beginning F.V balance of plan assets \times expected rate of return at the start of the year) - expected administrative costs of the plan.

^{*}Beginning balance of DBO on 1, Jan, 2019 is calculated after the curtailment effect.

Description	2017	2018	2019
Beg balance of plan assets	\$1,000	\$1,250	\$1,450 - \$48 = \$1,402*
(×) Beg expected rate of return	10%	10%	10%
Expected return on plan assets	100	125	140.20

2. Expected return on plan assets on beginning F.V of plan assets increases carrying value of plan assets and reduces periodic pension expense.

Step (6): Calculating pension expense:

1. The components of pension expense are as follows:

Description	2017	2018	2019
Current service cost	\$140	\$150	\$150
Past service cost	0	0	40
Add: Interest cost on DBO (step 3 above)	100	120	160
Less: Expected return on plan assets (step 4 above)	(100)	(125)	(140.20)
Pension expense	140	145	209.80

- 2. Pension expense is an operating expense that is recognised in P/L and credited to DBO.
- The one-off additional payment to former employees currently receiving pensions from the plan occurred in 2019 will increase pension expense and DBO.
- 4. The gain on plan settlement at the end of 2018 is already recorded by a reduction of pension expense; accordingly it will not be reduced again in the table above.

Step (7): Recording pension expense:

Description	Entry 201		17 201		018 20		19
Description	Luty	Dr	Cr	Dr	Cr	Dr	Cr
Recording recognised	Dr: Pension expense-P/L	\$140		\$145		\$209.80	
pension expense	Cr: DBO		\$140		\$145		\$209.80

Step (8): Calculating actuarial gain on plan assets:

Actuarial G/L on plan assets is determined as follows:

Description	2017	2018	2019
F.V of the Beg plan assets balance (given)	\$1,000	\$1,250	\$1,402
Add: Employer contributions to the plan	110	120	120
Less: Benefits paid out	(120)	(140)	(150)
Add: Expected return on plan assets	100	125	140.20
Plan curtailment	0	(48)	0
Carrying value of the plan assets at year-end	1,090	1,307	1,512.20
Actuarial gain	160 G	95 G	49.80 G
F.V of plan assets at year-end (given)	1,250	1,450 - 48 =1,402	1,610 - 48 = 1,562

Note: F.V of plan assets at the end of 2018 and 2019 would be reduced by \$48 plan curtailment because the F.V of plan assets given at the end of 2018 and 2019 were determined before recording the transfer of \$48.

Step (9): Recording actuarial gain on plan assets:

^{*} Beginning balance of plan assets on 1, Jan, 2019 is calculated after the curtailment effect.

Actuarial G/L on DBO is determined as follows:

Description	2017	2018	2019
P.V of the Beg DBO balance (given)	\$1,000	\$1,200	\$1,600
Add: Current service cost	140	150	150
Past service cost	0	0	40
Plan curtailment	-	(50)	-
Add: Interest on DBO	100	120	160
Less: Benefits paid during the year	(120)	(140)	(150)
Carrying value of the DBO at year-end	1,120	1,280	1,800
Actuarial G/L	80 L	320 L	150 G
P.V of DBO at year-end (given)	1,200	1,650 - 50 = 1,600	1,700 - 50 = 1,650

Note: P.V of DBO at the end of 2018 *and* 2019 would be reduced by \$50 plan curtailment because the P.V of DBO giv at the end of 2018 *and* 2019 were determined before reducing DBO by \$50.

Step (11): Recording actuarial G/L on DBO:

Description	Entry	20	17	20	18	20	19
Description		Dr	Cr	Dr	Cr	Dr	Cr
Recording actuarial	Dr: DBO					\$150	
gains on DBO	Cr: Actuarial gain on DBO						\$150
Recording actuarial	Dr: Actuarial loss on DBO	\$80		\$320			
loss on DBO	Cr: DBO		\$80		\$320		

Step (12): Netting actuarial G/L on plan assets and DBO:

Description	2017	2018	2019
Actuarial gain on plan assets	160 G	95 G	49.80 G
Actuarial G/L on DBO	80 L	320 L	150 G
OCI-re-measurement G/L	80 G	225 L	199.80 G

Net annual actuarial G/L is recognised on OCI for the year as a re-measurement G/L as follows:

Description	Entry	20	17	20	18	20	19
Description	2,	Dr	Cr	Dr	Cr	Dr	Cr
Closing actuarial G/L on OCI	Dr: Actuarial gain Dr: OCI-re-measurement loss Cr: Actuarial loss Cr: OCI-re-measurement gain	\$160	\$80 \$80	\$95 \$225	\$320	\$199.80	- \$199.80

Description	2017	2018	2019
Beg net (asset) liability position	Snil	(\$50)	\$198
Employer contributions to the plan	(110)	(120)	(120)
Expected return on plan assets	(100)	(125)	(140.20)
Current service cost	140	150	150
Past service cost	0	0	40
Interest on DBO	100	120	160
Reduction on Plan assets-curtailment	0	48	0
Reduction on Plan liabilities-curtailment	0	(50)	0
Carrying value of ending net (asset) liability position	30	(27)	287.80
Actuarial (gain) or loss	(80) G	225 L	(199.80)
Ending net liability (asset) position	(50)	198	88

Note: benefits paid has zero effect in net pension asset or liability position; so it is not included above.

B. Presentation and disclosure:

1. Year-end P.V balance of **DBO** is **offset** against F.V balance of **plan** assets. The net **position** is **presented** in the SFP as a non-current liability/asset.

Description	2017	2018	2019
F.V of plan assets at the year-end	\$1,250	\$1,402	\$1,562
P.V of plan liabilities at year-end	1,200	1,600	1,650
Non-current assets/liabilities	50 Surplus	198 Deficit	88 Defici

2. The balance of cumulative actuarial G/L is presented within the equity section at year-end as follows:

Description	2017	2018	2019
Cumulative beginning actuarial G/L	Snil	\$80 G	\$145 L
Net actuarial G/L recognised on OCI for the year	80 G	225 L	199.80 G
Year-end cumulative re-measurement loss (equity)	80 Cr	145 Dr	54.80 Cr

 $\textbf{Note: Cumulative actuarial re-measurement G/L is not reclassified to P/L, \textit{although} it may be transferred within equity.}$

3. Reported amounts on P/L and OCI are as follows:

2017	2018	2019
\$140	\$145 - \$2 = \$143	\$209.80
80 Gain	225 Loss	199.80 Gain
60	368	10
	\$140 80 Gain	\$140 \$145 - \$2 = \$143 80 Gain 225 Loss

4. A separate reconciliation, showing the movement between the opening and closing balances for the net pension liability or asset position should be disclosed as follows:

Description	2017	2018	2019
Opening net plan asset /(liability)	Snil	\$50	\$(198)
Pension expense and OCI	(60)	(368)	(10)
Employer contributions to the plan	110	120	120
Closing net plan assets/(liability)	50	(198)	(88)

Note: Because benefits paid reduce both plan assets and DBO; it has Snil effect on net plan assets.

10/1. Effects of pension plans on consolidated F/S5

For convenience; the adjusting effects of the pension plans on the consolidated F/S⁵ will be discussed in this chapter.

The following notes are relevant to the adjusting effects of pension plans on consolidated F/S5:

- 1. At the acquisition date: Pension plan assets and liabilities that associated with acquiree's employee (Sub) are measured and recognised in consolidated F/S⁶ in accordance with IAS #19 'Employee Benefits' rather than F.V (Exception to IFRS Accounting Standard # 3).
- 2. Any amendments to pension plans (and their related income tax effects) that are made as a result of business combination are treated as a post-combination event and recognised in the consolidated F/S³ in the periods in which the changes occur in accordance with IAS #19 provisions.
- 3. For defined contribution plans;
- A. Contributions paid by the employer (Parent or Sub) should be charged to the payer's expenses (pension expense) any unpaid amounts should be accrued at year-end and the benefits paid to the retired employees would reduce plan assets and liabilities with zero effect on net plan asset position or liability position.
- B. No re-measurement G/L is recognised.

Illustrative example: Odessa (parent) set up a defined contribution pension scheme on 1, Oct, 2018. Odessa must make annual contributions into the scheme equivalent to 5% of employee salaries for that 12 month period. For the year-ended 30, Sep, 2019; employee salaries were \$20m. Odessa has paid \$0.30m into the pension scheme in the current year and recognised this as an administrative expense.

Required: Show the effects on consolidated SFP on 30, Sep, 2019.

Answer

Pension expense = $$20m \times 5\% = $1m$

Amount accrued at year-end = \$1m - amount paid during the year \$0.30m = \$0.70m.

Description	Consolidated statement of P/L	Consolidated SFP
Recording occurred	Dr: Adm. Exp-Parent \$0.70m	Dr: R.E ^s \$0.70m
Exp.	Cr: Pension liability \$0.70m	Cr: Pension liability \$0.70m

- 4. For defined benefit plan;
- A. Contributions paid increases net asset position or reduce net liability position. If benefits paid were incorrectly expensed; an adjusting entry is required to reduce expense.
- $\textbf{B. Pension expense} \ \text{must be calculated} \ \textit{and} \ \textbf{recognised} \ \text{in the consolidated} \ \textbf{F/S}^s \ \textit{if} \ \text{it was not recorded} \ \textbf{during the year}.$
- C. Benefits paid to the retired employees would reduce plan assets and DBO with zero effect on net plan asset or liability position.
- D. Re-measurement G/L must be computed and recognised in consolidated F/S⁵.

Illustrative example (1): The group makes contributions into both defined benefit and defined contribution plans.

All the employees of Kara (75% owned Sub) and Gomera (80% owned Sub) are members of defined contribution plans but many of the employees of Penny (parent) are members of a defined benefit plan. The following are relevant details regarding the defined benefit plan:

- A. P.V of plan obligation at 30, Sep, 2019: \$40m (30, Sep, 2018: \$32m).
- B. F.V of plan assets at 30, Sep, 2019: \$34m (30, Sep, 2018: \$27m).
- C. Current service cost for the year-ended 30, Sep, 2019: \$6m.
- D. Contributions paid into the plan by Penny in the year-ended 30, Sep, 2019: \$5.40m.
- E. Benefits paid to retired members of Penny: \$2m.
- F. Relevant market yield: 5% per annum throughout the period.

Penny has charged the contributions paid into the defined benefit plan in the year-ended 30, Sep, 2019 as an administrative expense.

Penny has made no other entries in respect of the plan in the statement of P/L and OCI. However Penny correctly accounted for the defined benefit plan in the F/S^s for the year-ended 30, Sep, 2018.

Required: Show the effects on consolidated SFP on 30, Sep, 2019.

Answer:

1. Relating to Kara and Gomera pension plans:

No adjusting entries will be made in consolidated F/S⁵ to the Sub⁵ pension plans because no information was given relating to their defined contribution plans.

2. Contributions paid to the plan increases plan assets rather than pension expenses:

Description	Consolidated statement of P/L and OCI	Consolidated SFP
Excluding contributions	Dr: Plan assets \$5.40m	Dr: Plan assets \$5.40m
incorrectly charged to P/L	Cr: Adm. Exp-Parent \$5.40m	Cr: R.E ^s \$5.40m

3. Calculating pension expense for the current year:

Pension expense	Amount
Current service cost (given)	\$6m
Add: Interest cost on beginning pension liability (\$32m \times 5%)	1.60m
Less: Expected return on beginning balance of plan assets (\$27m \times 5%)	(1.35)m
Pension expense	6.25m

Description	Consolidated statement of P/L and OCI	Consolidated SFP			
Recording pension	Dr: Pension Exp-Parent \$6.25m	Dr: R.E ^s \$6.25m			
expense for the year	Cr: Pension liability \$6.25m	Cr: Pension liability \$6.25m			

4. Recording Benefits paid:

Description	Consolidated statement of P/L and OCI	Consolidated SFP		
Recording benefits paid to employees	No effect	Dr: Pension Hability S2m Cr: Plan assets S2m		

5. Calculating Re-measurement G/L:

Description	Amount
Opening net liability position (\$32m - \$27m)	\$5m
Increased by: Current service cost (given)	6m
Increased by: Interest cost on pension liability (S32m \times 5%)	1.60m
Reduced by: Expected return on plan assets (S27m \times 5%)	(1.35)m
Reduced by: Contributions paid to the plan (given)	(5.40)m
Benefits paid	Nil effect
Carrying value of net liability position at year-end	5.85m
Actuarial loss	0.15m
Closing net liability position (\$40m - \$34m)	6m

Note: benefits paid to employees will not affect the net liability position because it decreases plan assets and DBO accordingly; its net effect on net pension position would be Snil in all cases.

Note: benefits paid to employees will not affect the net liability position because it decreases plan assets and DBO accordingly; its net effect on net pension position would be \$nil in all cases.

Description	Consolidated statement of P/L and OCI	Consolidated SFP			
Recording	Dr: OCI-Re-measurement loss -Parent \$0.15m	Dr: Other component of equity- Parent \$0.15m			
actuarial loss	Cr: Pension liability \$0.15m	Cr: Pension liability \$0.15m			

Illustrative example (2): Morgan (parent) has established a **defined** benefit retirement plan for its employees. Its SFP at 31, March, 2019 showed a **net liability** of \$60m in respect of this plan comprising of the following:

- P.V of Pension obligation \$140m.
- F.V of plan assets \$80m.

Relevant data for year-ended 31, March, 2020 is as follows:

- Current service cost \$28m.
- Interest cost on net Plan liabilities \$2m.
- Contributions paid into the plan by Morgan \$25m.
- Benefits paid by the plan to plan members \$9m.
- Actuarial loss on net Plan liabilities \$1m.

The only accounting entry made by Morgan in respect of the plan in its draft F/S' of the current period was to debit the net pension liability with the contributions paid into the plan.

Ignore the deferred tax implications of any adjustments you make due to the information in this note.

Required: Show the effects on consolidated SFP on 31, March, 2020.

Answer:

1. Calculating pension expense for the current year:

Pension expense	Amount
Current service cost (given)	\$28m
Net interest cost (given)	2m
Pension expense	30m

Description	Consolidated statement of P/L and OCI	Consolidated SFP		
Recording pension	Dr: Operating expenses (pension Exp)-Parent \$30m	Dr: R.E ⁵ \$30m		
expense for the year	Cr: Pension liability \$30m	Cr: Pension liability \$30m		

2. Recording benefits paid:

Description	Consolidated statement of P/L and OCI	Consolidated SFP		
Recording benefits paid to employees	No effect	Zero effect on net pension position		

3. Recording re-measurement (actuarial) loss:

Description	Consolidated statement of P/L and OCI	Consolidated SFP			
Recording	Dr: OCI-re-measurement loss-Parent \$1m	Dr: Other component of equity-Parent \$1m			
actuarial loss	Cr: DBO S1m	Cr: DBO S1m			

4. Calculating ending balance of net liability position:

Movement in net liability position	Amount	Notes
Opening net liability position (given)	\$60m	
Increased by: Current service cost (given)	28m	Adjusted above
Increased by: Interest cost on net liability position (given)	2m	Adjusted above
Reduced by: Contributions paid to the plan (given)	(25)m	Recorded per question
Benefits paid	Nil effect	
Increased by: Actuarial loss on net liability position (given)	lm	Adjusted above
Closing net liability position	66m	

Notes:

- A. Benefits paid to employees will not affect the net liability position because it decreases plan assets and DBO accordingly its net effect on net pension position would be \$nil.
- B. No other adjustments are required in consolidated F/Ss.
- C. Morgan's SFP at 31, March, 2020 would include non-current net pension liability at \$66m.

الإفصاحات

11/1. Disclosures

An entity should disclose the following information about defined benefit plan:

- 1. Explanation of the regulatory framework within which the plan operates;
- 2. Explanation of the nature of benefits provided by the plan;
- 3. Explanation of the nature of the risks the entity is exposed to;
- 4. Explanation of any plan amendments, settlements or curtailments in the year,
- 5. Disclosure of the significant actuarial assumptions used to determine the net DBO or assets;
- 6. A reconciliation showing the movements during the period in the net liability (or asset) recognised the SFP;
- 7. The charge to total CI for the year, separated into the appropriate components;
- 8. Analysis of the re-measurement component;
- 9. Sensitivity analysis and narrative description of how the **defined benefit plan** may affect the nature, timing and uncertainty of the entity's future cash flows.

المحاسبة عن المزايا الأخرى طويلة الأجل (بخلاف خطط المزايا بعد انتهاء الخدمة)

12/1. Items under other long term benefits 'category'

The	types	of	benefits	that	might	fall	into	this	category	include	100
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- A. Long-term paid absences such as long-service or sabbatical leave;
- B. Jubilee or other long-service benefits;
- C. Long-term disability benefits;
- D. Long-term profit-sharing and bonuses;
- E. Deferred remuneration.

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12/2. Accounting treatment for other long-term benefits

- There are many similarities between these types of benefits and defined benefit pension plans. For example in a long-term bonus plan; the employees may provide service over a number of periods to earn their entitlement to a payment at a later date.
- 2. In some case, the entity may put cash aside or invest it in some way such as taking out an insurance policy to meet the liabilities when they arise.
- 3. Because the uncertainty relating to the measurement of these benefits is low compared with defined benefit plans; IAS # 19 requires accounting for other long term benefits through P/L.
- 4. The entity should recognise all of the following in P/L:
- A. Service cost;
- B. Net interest on the defined benefit liability/asset;
- C. Re-measurement of the defined benefit liability/asset is recognised in P/L rather than OCI.

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13/1. Criticisms of IAS #19

Retirement benefits accounting continues to be a controversial area. Commentators have perceived the following problems with the IAS #19 approach:

- 1. IAS #19 requires plan assets to be valued at F.V. The F.V of plan assets is not relevant to the economic reality because most pension assets are held for the long term. *And if* the actuarial bases of valuing plan assets reflect the long-term perspective such a move would be a departure from IFRS Accounting Standard #13 'F.V Measurement'
- 2. The F.V of plan assets may be volatile or difficult to measure reliably; this could lead to significant fluctuations in the SFP.
- 3. The treatment of pension costs in the statement of P/L and OCI is complex and may not be easily understood by F/S^s users.